



罗姆集团综合产品目录



关于罗姆的功能安全品牌

ComfySIL™



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ROHM为了使进行功能安全设计的客户能够Comfy(舒适)地使用支持SIL(Safety Integrity Level: 安全完整性等级)的产品, 同时, 还希望其产品为构建安全、安心和舒适的社会做出贡献。基于以上想法, ROHM推出了ComfySIL™品牌。

ComfySIL™适用于遵循ComfySIL™理念的功能安全产品, 不仅适用于汽车领域也适用于工业设备领域。

功能安全类别和可提供的文档

ROHM拥有以下三种功能安全产品。

(目前仅支持汽车领域)

- **FS process compliant(FSp)**
表示相应LSI是按照符合ISO 26262标准中ASIL等级规定的流程开发的。
- **FS mechanism implemented(FSm)**
表示相应LSI搭载了ASIL等级要求的安全机制。
- **FS supportive(FSs)**
表示这是面向车载领域开发的LSI, 支持与功能安全性相关的安全性分析。

可提供的资料列表

	FS process compliant (FSp)	FS mechanism implemented (FSm)	FS supportive (FSs)
支持IATF16949流程	✓	✓	✓
支持ISO 26262流程	✓	—	—
FMEA	✓	✓	✓
FIT	✓	✓	✓
FMEDA	✓	✓	✓ *
Safety manual	✓	✓	—

*FS supportive的FMEDA中不包括对硬件架构指标等的分析。

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目录的阅读方法

■关于“ComfySIL™”适用机型

本产品目录中刊载了“ComfySIL™”适用机型。
ComfySIL™适用机型在项目中设有“ComfySIL™”栏。
栏中以FSp、FSm、FSs字母缩写标示。



FSp: FS process compliant
FSm: FS mechanism implemented
FSs: FS supportive

- 正文中 **New** 表示新产品。
- 正文中的 **Nano** 表示采用了罗姆先进电源技术的产品。
- 正文中的 **MUS-IC** 表示罗姆高端音频IC专用的产品“MUS-IC系列”。
- 正文中☆表示开发中的产品。

■按颜色分类

- 罗姆产品 用色带表示
- LAPIS Technology产品 用色带表示正文中用“LAPIS Technology产品”表示
- Kionix产品 用色带表示正文中用“Kionix产品”表示



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“Nano系列”是采用了罗姆充分节能和小型化的先进电源技术的产品。

超高速脉冲控制技术 Nano Pulse Control™
超低消耗电流技术 Nano Energy™
超稳定控制技术 Nano Cap™

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融合了罗姆的模拟“电路设计技术”、“布局技术”、“工艺技术”开发而成的“EMARMOUR™”系列产品, 通过了4项国际噪声评估测试, 实现了极具优势的抗噪性能。

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Tr 晶体管

已通过 ISO/TS 16949 认证

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小信号MOSFET 145

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存储器

SDRAM (LAPIS Technology产品)

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串行EEPROM

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存储器

SDRAM

(LAPIS Technology产品)

通用传统的DRAM SDRAM

F

工业设备用传统的DRAM SDRAM

F

车载用传统的DRAM SDRAM

F

SIP用SDRAM

F

串行EEPROM

通用EEPROM

I²C BUS EEPROM (2-Wire)

F

SPI BUS EEPROM

F

Microwire BUS EEPROM (3-Wire)

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WL-CSP EEPROM

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Plug & Play EEPROM

F

车载用EEPROM

I²C BUS EEPROM (2-Wire)

F

Microwire BUS EEPROM (3-Wire)

F

SDRAM

通用传统的DRAM SDRAM

(LAPIS Technology产品)

标准

Part No.	Data Rate type	Supply Voltage (V)	Density (bit)	Number of Data bits	Configuration (bank×word×bit)	Max Operating Frequency (MHz)	Refresh Cycle (cycles/ms)	Cycle Time (ns)	Features	Operating Temperature T _a (°C)	Package	Halogen Free Support*1				
MD56V62161R	SDR	3.3±0.3	64M	x16	4×1M×16	166	4096/64	6/7/7.5/10	Drivability Control (EMRS)	0 to +70	TSOP (2) 54-400-0.80-ZK6	✓				
MD56V72161C			128M		4×2M×16						TSOP (2) 54-400-0.80-ZK6	✓				
MD56V82161A			256M		4×4M×16		8192/64	6			TSOP (2) 54-400-0.80-ZK6	✓				
MD56V82160A-xxLA											P-TFBGA54-0808-0.80-9	✓				

SDR: Single Data Rate Synchronous DRAM

*1 带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。

工业设备用传统的DRAM SDRAM

(LAPIS Technology产品)

工业

Part No.	Data Rate type	Supply Voltage (V)	Density (bit)	Number of Data bits	Configuration (bank×word×bit)	Max Operating Frequency (MHz)	Refresh Cycle (cycles/ms)	Cycle Time (ns)	Features	Operating Temperature T _a (°C)	Package	Halogen Free Support*1	for Industrial Equipment		
MD56V62161R-xxTAP	SDR	3.3±0.3	64M	x16	4×1M×16	166	4096/64	6/7/7.5/10	Drivability Control (EMRS)	-40 to +85	TSOP (2) 54-400-0.80-ZK6	✓	✓		
MD56V72161C-xxTAP			128M		4×2M×16						TSOP (2) 54-400-0.80-ZK6	✓	✓		
MD56V82161A-xxTAP			256M		4×4M×16		8192/64	6			TSOP (2) 54-400-0.80-ZK6	✓	✓		
MD56V82160A-xxLAP											P-TFBGA54-0808-0.80-9	✓	✓		

*1 带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。

车载用传统的DRAM SDRAM

(LAPIS Technology产品)

车载(支持85°C/95°C/105°C工作温度)

Part No.	Data Rate type	Supply Voltage (V)	Density (bit)	Number of Data bits	Configuration (bank×word×bit)	Max Operating Frequency (MHz)	Refresh Cycle (cycles/ms)	Cycle Time (ns)	Features	Operating Temperature T _a (°C)	Package	Halogen Free Support*1	Automotive Grade*2
MD56V62161R-xxTAL	SDR	3.3±0.3	64M	16	4×1M×16	166	4096/64	6/7/7.5/10	Drivability Control (EMRS)	-40 to +85 -40 to +105	TSOP (2) 54-400-0.80-ZK6	✓	YES
MD56V72161C-xxTAL			128M		4×2M×16		4096/16				TSOP (2) 54-400-0.80-ZK6	✓	YES
MD56V82161A-xxTAL			256M		4×4M×16		8192/64 8192/16				TSOP (2) 54-400-0.80-ZK6	✓	YES

*1 带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。

*2 关于AEC-Q100, 请咨询销售人员。

SiP用 SDRAM

(LAPIS Technology产品)

标准

Part No.	Supply Voltage (V)	Density (bit)	Number of Data bits	Configuration (bank×word×bit)	Max Operating Frequency (MHz)	Refresh Cycle (cycles/ms)	Cycle Time (ns)	Operating Temperature T _J (°C)	Features
MD56V62160R-xxWBP	3.3±0.3	64M	×16	4×1M×16	166	4096/32	6/7	-40 to +125	KGD
MD56V72160C-xxWBP		128M		4×2M×16			6/7/7.5/10		

串行EEPROM

通用EEPROM

I²C BUS EEPROM(2-Wire) BR24Gxxx-3系列(SCL频率=400kHz)

Part No.	Package and Suffix							Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Hz)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	SSOP-B8	TSSOP-B8	MSOP8	TSSOP-B8J	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G01	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	1K	128×8	1.6 to 5.5	2	2	5	400k	-40 to +85	10 ⁶	40
BR24G02	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	2K	256×8	1.6 to 5.5	2	2	5	400k			
BR24G04	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	4K	512×8	1.6 to 5.5	2	2	5	400k			
BR24G08	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	8K	1K×8	1.6 to 5.5	2	2	5	400k			
BR24G16	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	16K	2K×8	1.6 to 5.5	2	2	5	400k			
BR24G32	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	32K	4K×8	1.6 to 5.5	2	2	5	400k			
BR24G64	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	64K	8K×8	1.6 to 5.5	2	2	5	400k			
BR24G128	F-3	FJ-3	FV-3	FVT-3	FVM-3	FVJ-3	NUX-3	128K	16K×8	1.6 to 5.5	2.5	2	5	400k			
BR24G256	F-3	FJ-3	FV-3	FVT-3	—	—	—	256K	32K×8	1.6 to 5.5	2.5	2	5	400k			

I²C BUS EEPROM(2-Wire) BR24Gxxx-3A系列(SCL频率=1MHz)

BR24G01	F-3A	FJ-3A	—	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	1K	128×8	1.7 to 5.5	2	2	5	1M	-40 to +85	10 ⁶	40
BR24G02	F-3A	FJ-3A	—	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	2K	256×8	1.7 to 5.5	2	2	5	1M			
BR24G04	F-3A	FJ-3A	—	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	4K	512×8	1.7 to 5.5	2	2	5	1M			
BR24G08	F-3A	FJ-3A	—	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	8K	1K×8	1.7 to 5.5	2	2	5	1M			
BR24G16	F-3A	FJ-3A	—	FVT-3A	FVM-3A	FVJ-3A	NUX-3A	16K	2K×8	1.7 to 5.5	2	2	5	1M			
BR24G512	F-3A	FJ-3A	—	FVT-3A	—	—	—	512K	64K×8	1.7 to 5.5	4.5	3	5	1M			

I²C BUS EEPROM (2-Wire) BR24Gxxx-5系列 (SCL频率=1MHz、改写次数400万次)

BR24G32	F-5	FJ-5	—	FVT-5	FVM-5	—	NUX-5	32K	4K×8	1.6 to 5.5	2	2.5	5	1M	-40 to +85	4×10 ⁶	200
BR24G64	F-5	FJ-5	—	FVT-5	FVM-5	—	NUX-5	64K	8K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G128	F-5	FJ-5	—	FVT-5	FVM-5	—	NUX-5	128K	16K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G256	F-5	FJ-5	—	FVT-5	FVM-5	—	NUX-5	256K	32K×8	1.6 to 5.5	2	2.5	5	1M			

I²C BUS EEPROM (2-Wire) BR24Gxxx-5A系列 (SCL频率=1MHz、改写次数400万次)

New BR24G512	F-5A	FJ-5A	—	FVT-5A	FVM-5A	—	—	512K	64K×8	1.6 to 5.5	3	5	3.5	1M	-40 to +85	4×10 ⁶	200
New BR24G1M	F-5A	FJ-5A	—	FVT-5A	—	—	—	1M	128K×8	1.7 to 5.5	3	5	3.5	1M			

SPI BUS EEPROM BR25Gxxx-3系列

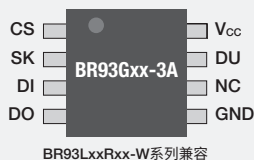
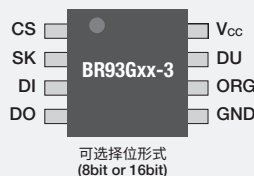
Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
BR25G320	F-3	FJ-3	FVT-3	FVM-3	NUX-3	32K	4K×8	1.6 to 5.5	8	2	5	-40 to +85	10 ⁶	100
BR25G640	F-3	FJ-3	FVT-3	FVM-3	NUX-3	64K	8K×8	1.6 to 5.5	8	2	5			
BR25G128	F-3	FJ-3	FVT-3	FVM-3	NUX-3	128K	16K×8	1.6 to 5.5	8	2	5			
BR25G256	F-3	FJ-3	FVT-3	—	—	256K	32K×8	1.6 to 5.5	8	2	5			
BR25G512	F-3	FJ-3	FVT-3	—	—	512K	64K×8	1.8 to 5.5	4	1	5			
BR25G1M	F-3	FJ-3	—	—	—	1M	128K×8	1.8 to 5.5	4	1	5			

Microwire BUS EEPROM (3-Wire) BR93Gxx-3/3A/3B系列

BR93G46	F-3*/ F-3A* ² / F-3B* ³	FJ-3*/ FJ-3A* ² / FJ-3B* ³	FVT-3*/ FVT-3A* ² / FVT-3B* ³	FVM-3*/ FVM-3A* ² / FVM-3B* ³	NUX-3*/ NUX-3A* ² / NUX-3B* ³	1K	64×16 (128×8)	1.7 to 5.5	3	2	5	-40 to +85	10 ⁶	40
BR93G56	F-3*/ F-3A* ² / F-3B* ³	FJ-3*/ FJ-3A* ² / FJ-3B* ³	FVT-3*/ FVT-3A* ² / FVT-3B* ³	FVM-3*/ FVM-3A* ² / FVM-3B* ³	NUX-3*/ NUX-3A* ² / NUX-3B* ³	2K	128×16 (256×8)	1.7 to 5.5	3	2	5			
BR93G66	F-3*/ F-3A* ² / F-3B* ³	FJ-3*/ FJ-3A* ² / FJ-3B* ³	FVT-3*/ FVT-3A* ² / FVT-3B* ³	FVM-3*/ FVM-3A* ² / FVM-3B* ³	NUX-3*/ NUX-3A* ² / NUX-3B* ³	4K	256×16 (512×8)	1.7 to 5.5	3	2	5			
BR93G76	F-3*/ F-3A* ² / F-3B* ³	FJ-3*/ FJ-3A* ² / FJ-3B* ³	FVT-3*/ FVT-3A* ² / FVT-3B* ³	FVM-3*/ FVM-3A* ² / FVM-3B* ³	NUX-3*/ NUX-3A* ² / NUX-3B* ³	8K	512×16 (1K×8)	1.7 to 5.5	3	2	5			
BR93G86	F-3*/ F-3A* ² / F-3B* ³	FJ-3*/ FJ-3A* ² / FJ-3B* ³	FVT-3*/ FVT-3A* ² / FVT-3B* ³	FVM-3*/ FVM-3A* ² / FVM-3B* ³	NUX-3*/ NUX-3A* ² / NUX-3B* ³	16K	1K×16 (2K×8)	1.7 to 5.5	3	2	5			

Microwire BUS EEPROM (3-Wire) BR93Gxx-3/3A/3B系列: *1 向ORG PIN输入后, 在硬件上可选择16bit或8bit的数据格式 *2 1PIN为CS PIN *3 3PIN为CS PIN

Micro Wire BUS Pin Assignment



WL-CSP EEPROM

Part No.	I/F	Density (bit)	Package					Pull-up Resistor	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Data Retention (years)
			Package Name	Size (mm)	Thickness (mm) (Max)	Ball Pitch (mm)	RESIN COATING				Operating (mA)	Standby (μA)			
BU9833GUL-W	I ² C	2K	VCSP50L1	x: 1.27 y: 1.50	0.55	0.5	✓	—	256×8	1.7 to 5.5	2	2	5	-40 to +85	40
BU9847GUL-W	I ² C	4K	VCSP50L1	x: 1.95 y: 1.06	0.55	0.5	✓	—	512×8	1.7 to 5.5	2	2	5	-40 to +85	40
BU9889GUL-W	I ² C	8K	VCSP50L1	x: 1.60 y: 1.00	0.55	0.5	✓	—	1K×8	1.7 to 5.5	2	2	5	-40 to +85	40
BRCB008GWZ-3	I ² C	8K	UCSP30L1	x: 0.94 y: 0.94	0.33	0.4	—	—	1K×8	1.7 to 3.6	2	2	5	-40 to +85	40
New BRCB016GWL-3U	I ² C	16K	UCSP50L1	x: 1.10 y: 1.15	0.55	0.4	✓	—	2K×8	1.7 to 3.6	2	2	5	-40 to +85	40
BRCD016GWZ-3	I ² C	16K	UCSP35L1	x: 1.30 y: 0.77	0.40	0.4	✓	—	2K×8	1.7 to 3.6	2	2	5	-40 to +85	40
BRCG016GWZ-3	I ² C	16K	UCSP30L1A	x: 0.82 y: 0.82	0.33	0.4	✓	—	2K×8	1.7 to 5.5	2	2	5	-40 to +85	40
BRCF016GWZ-3	I ² C	16K	UCSP30L1	x: 0.86 y: 0.84	0.35	0.4	—	—	2K×8	1.7 to 5.5	2	2	5	-40 to +85	40
BRCA016GWZ-W	I ² C	16K	UCSP30L1	x: 1.30 y: 0.77	0.35	0.4	—	—	2K×8	1.7 to 3.6	2	2	5	-40 to +85	40
BRCB032GWZ-3	I ² C	32K	UCSP30L1	x: 1.45 y: 0.77	0.33	0.4	—	—	4K×8	1.7 to 5.5	2	2	5	-40 to +85	40
BRCH064GWZ-3	I ² C	64K	UCSP30L1A	x: 1.50 y: 1.00	0.33	0.4	✓	—	8K×8	1.6 to 5.5	2	2	5	-40 to +85	40
BRCB064GWZ-3	I ² C	64K	UCSP30L1	x: 1.50 y: 1.00	0.35	0.4	—	WP	8K×8	1.6 to 5.5	3.9	2	5	-40 to +85	40
BRCE064GWZ-3	I ² C	64K	UCSP25L1	x: 1.50 y: 1.00	0.30	0.4	—	—	8K×8	1.6 to 5.5	2	2	5	-40 to +85	40
BU9897GUL-W	I ² C	128K	VCSP50L2	x: 2.44 y: 1.99	0.55	0.5	✓	—	16K×8	1.7 to 5.5	2.5	2	5	-40 to +85	40
BU9832GUL-W	SPI	8K	VCSP50L2	x: 2.09 y: 1.85	0.55	0.5	✓	—	1K×8	1.8 to 5.5	3	2	5	-40 to +85	40
BU9829GUL-W	SPI	16K	VCSP50L1	x: 1.74 y: 1.65	0.55	0.5	✓	—	2K×8	1.6 to 3.6	2	1	5	-30 to +85	10
BR25S128GUZ-W	SPI	128K	VCSP35L2	x: 2.00 y: 2.63	0.40	0.5	✓	—	16K×8	1.7 to 5.5	2*	2	5	-40 to +85	40
BU9891GUL-W	MW	4K	VCSP50L1	x: 1.60 y: 1.00	0.55	0.5	✓	—	256×16	1.7 to 5.5	3	2	5	-40 to +85	40

WL-CSP EEPROM: *V_{CC}=2.5V

通用EEPROM

Plug & Play用EEPROM 用于存储器模块

Part No.	Package and Suffix		Bit Format (word×bit)	Supply Voltage (V)	Clock Frequency (kHz)	Write Cycle Time (ms)	Endurance (times)	Data Retention (years)	Write Protect
	TSSOP-B8	VSON008X2030							
BR34L02	FVT-W	—	256×8	1.7 to 5.5	100*/400*2	5	10 ⁶	40	Onetime ROM write protect
BR34E02	FVT-3/FVT-W	NUX-3/NUX-W	256×8	1.7 to 5.5/ 1.7 to 3.6	400	5	10 ⁶	40	Settable write protect Onetime ROM write protect

Plug & Play用EEPROM 用于存储器模块 : *1 V_{CC}=1.7~5.5V *2 V_{CC}=2.5~5.5V

Plug & Play用EEPROM 用于显示器

Part No.	Package and Suffix							Function Descriptions	Bit Format (word×bit)	Supply Voltage (V)	Clock Frequency (MHz)	Write Cycle Time (ms)
	SOP8	SOP-J8	SSOP-B8	SOP14	SSOP-B14	SSOP-B16	VSON008X2030					
BR24C21	F	FJ	FV	—	—	—	—	Supports DDC1/DDC2 for displays	128×8	2.5 to 5.5	100/400	10
BU9882	—	—	—	F-W	FV-W	—	—	Dual-port type compatible with DDC2 for displays	128×8×2ch	2.5 to 5.5	100/400	10
BU9883	—	—	—	—	—	FV-W	—	2Kbit×3ch EEPROM for HDMI ports	256×8×3ch	3.0 to 5.5	400	5
BU99022	—	—	—	—	—	—	NUX-3	2Kbit×2ch type	256×8×2ch	1.7 to 5.5	400	5

车载用EEPROM

125°C工作 I²C BUS EEPROM (2-Wire) BR24Hxxx-5AC系列

Part No.	Package and Suffix						Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030	VSON08AX2030				Operating (mA)	Standby (μA)						
New BR24H01	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	1K	128×8	1.7 to 5.5	1.7	10	3.5	-40 to +125	4×10 ⁶	100	FSs	YES
New BR24H02	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	2K	256×8	1.7 to 5.5	1.7	10	3.5				FSs	
New BR24H04	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	4K	512×8	1.7 to 5.5	1.7	10	3.5				FSs	
New BR24H08	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	8K	1K×8	1.7 to 5.5	1.7	10	3.5				FSs	
New BR24H16	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	16K	2K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H32	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	32K	4K×8	1.7 to 5.5	1.7	10	3.5				FSs	
New BR24H64	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	64K	8K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H128	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	128K	16K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H256	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	256K	32K×8	1.7 to 5.5	1.7	10	3.5				FSs	
New BR24H1M	F-5AC	FJ-5AC	FVT-5AC	—	—	—	1M	128K×8	2.5 to 5.5	3	20	3.5				FSs	

105°C工作 I²C BUS EEPROM (2-Wire) BR24Axx-WM系列

Part No.	Package and Suffix			Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	MSOP8				Operating (mA)	Standby (μA)						
BR24A01A	F-WM	FJ-WM	—	1K	128×8	2.5 to 5.5	2	2	5	-40 to +105	10 ⁶	40	FSs	YES
BR24A02	F-WM	FJ-WM	FVM-WM	2K	256×8	2.5 to 5.5	2	2	5				FSs	
BR24A04	F-WM	FJ-WM	—	4K	512×8	2.5 to 5.5	2	2	5				FSs	
BR24A08	F-WM	FJ-WM	—	8K	1K×8	2.5 to 5.5	2	2	5				FSs	
BR24A16	F-WM	FJ-WM	—	16K	2K×8	2.5 to 5.5	2	2	5				FSs	
BR24A32	F-WM	—	—	32K	4K×8	2.5 to 5.5	3	2	5				FSs	
BR24A64	F-WM	—	—	64K	8K×8	2.5 to 5.5	3	2	5				FSs	

85°C工作 I²C BUS EEPROM (2-Wire) BR24Txx-3AM系列

Part No.	Package and Suffix			Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8				Operating (mA)	Standby (μA)						
BR24T512	F-3AM	FJ-3AM	FVT-3AM	512K	64K×8	1.7 to 5.5	4.5	3	5	-40 to +85	10 ⁶	40	FSs	YES
BR24T1M	F-3AM	FJ-3AM	—	1M	128K×8	1.7 to 5.5	4.5	3	5				FSs	

125°C工作 Microwire BUS EEPROM (3-Wire) BR93Hxx-2C系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR93H46	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	1K	64×16	2.5 to 5.5	3	10	4	-40 to +125	10 ⁶	100	FSs	YES
BR93H56	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	2K	128×16	2.5 to 5.5	3	10	4				FSs	
BR93H66	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	4K	256×16	2.5 to 5.5	3	10	4				FSs	
BR93H76	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	8K	512×16	2.5 to 5.5	3	10	4				FSs	
BR93H86	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	16K	1K×16	2.5 to 5.5	3	10	4				FSs	

105°C工作 Microwire BUS EEPROM (3-Wire) BR93Axx-WM系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR93A46	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	1K	64×16	2.5 to 5.5	3	2	5	-40 to +105	10 ⁶	40	FSs	YES
BR93A56	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	2K	128×16	2.5 to 5.5	3	2	5				FSs	
BR93A66	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	4K	256×16	2.5 to 5.5	3	2	5				FSs	
BR93A76	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	8K	512×16	2.5 to 5.5	3	2	5				FSs	
BR93A86	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	16K	1K×16	2.5 to 5.5	3	2	5				FSs	

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*1 "ComfySIL™功能安全类别" 详情请参阅封二。

125°C工作 内置ECC功能 SPI BUS EEPROM BR25Hxxx-5AC系列

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)						
New BR25H640	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	64K	8K×8	1.7 to 5.5	8	10	3.5	-40 to +125	4×10 ⁶	100	FSs	YES
BR25H128	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	128K	16K×8	1.7 to 5.5	8	10	3.5				FSs	
New BR25H256	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	256K	32K×8	1.7 to 5.5	8	10	3.5				FSs	
New BR25H1M	F-5AC	FJ-5AC	FVT-5AC	—	—	1024K	128K×8	1.7 to 5.5	8	20	3.5				FSs	

125°C工作 内置ECC功能 SPI BUS EEPROM BR25Hxxx-2AC系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR25H640	F-2AC	FJ-2AC	FVT-2AC	FVM-2AC	64K	8K×8	2.5 to 5.5	5.5	10	4	-40 to +125	10 ⁶	100	FSs	YES
BR25H128	F-2AC	FJ-2AC	FVT-2AC	—	128K	16K×8	2.5 to 5.5	5.5	10	4				FSs	
BR25H256	F-2AC	FJ-2AC	—	—	256K	32K×8	2.5 to 5.5	5.5	10	4				FSs	

125°C工作 SPI BUS EEPROM BR25Hxxx-2C系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (µA)						
BR25H010	F-2C	FJ-2C	FVT-2C	FVM-2C	1K	128×8	2.5 to 5.5	4	10	4	-40 to +125	10 ⁶	100	FSs	YES
BR25H020	F-2C	FJ-2C	FVT-2C	FVM-2C	2K	256×8	2.5 to 5.5	4	10	4				FSs	
BR25H040	F-2C	FJ-2C	FVT-2C	FVM-2C	4K	512×8	2.5 to 5.5	4	10	4				FSs	
BR25H080	F-2C	FJ-2C	FVT-2C	FVM-2C	8K	1K×8	2.5 to 5.5	4	10	4				FSs	
BR25H160	F-2C	FJ-2C	FVT-2C	FVM-2C	16K	2K×8	2.5 to 5.5	4	10	4				FSs	
BR25H320	F-2C	FJ-2C	FVT-2C	FVM-2C	32K	4K×8	2.5 to 5.5	4	10	4				FSs	
BR25H640	F-2C	FJ-2C	FVT-2C	—	64K	8K×8	2.5 to 5.5	5.5	10	4				FSs	
BR25H128	F-2C	FJ-2C	—	—	128K	16K×8	2.5 to 5.5	5.5	10	4				FSs	

105°C工作 SPI BUS EEPROM BR25Axxx-3M系列

BR25A256	F-3M	FJ-3M	FVT-3M	—	256K	32K×8	2.5 to 5.5	4	10	5	-40 to +105	10 ⁶	100	FSs	YES
BR25A512	F-3M	FJ-3M	FVT-3M	—	512K	64K×8	2.5 to 5.5	4	10	5				FSs	
BR25A1M	F-3M	FJ-3M	—	—	1M	128K×8	2.5 to 5.5	4	10	5				FSs	

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

运算放大器/比较器

运算放大器

P.14

比较器

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运算放大器

通用

P.14

高速

P.15

低消耗电流

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比较器

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P.19

高速

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低消耗电流

P.20

运算放大器

通用

接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BA2904/BA2904S	2	3 to 36	0.5	2.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	-40 to +125/ -40 to +105	SOP8	F
															SSOP-B8	FV
															MSOP8	FVM
BA2904Y	2	3 to 36	0.5	2.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	-40 to +125	SOP8	F-LB
BA2902/BA2902S	4	3 to 36	0.7	2.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	-40 to +125/ -40 to +105	SOP14	F
															SSOP-B14	FV
BA2902Y	4	3 to 36	0.7	2.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	-40 to +125	SOP14	F-LB
BA3404	2	4 to 36	2.0	2.0	70	30	V_{EE} to $V_{CC}-2.0$	V_{EE} to $V_{CC}-2.0$	100	90	94	1.2	1.2	-40 to +85	SOP8	F
															SOP-J8	FJ
															MSOP8	FVM
LM2902	4	3 to 32	1.0	1.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.3	0.8	-40 to +125	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
LM2904	2	3 to 32	0.6	1.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.3	0.8	-40 to +125	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT
LM324	4	3 to 32	1.0	1.0	20	30	V_{EE} to $V_{CC}-1.5$	$V_{EE}+0.01$ to $V_{CC}-1.5$	100	80	100	0.3	0.8	-40 to +85	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
LM358	2	3 to 32	0.6	1.0	20	30	V_{EE} to $V_{CC}-1.5$	$V_{EE}+0.01$ to $V_{CC}-1.5$	100	80	100	0.3	0.8	-40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
															TSSOP-B8	FVT

车载用接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA2904Y	2	3 to 36	0.5	2.0 (Max: 3.5)	20 (Max: 60)	30	V _{EE} to V _{CC} -1.5	V _{EE} to V _{CC} -1.5	100	80	100	0.2	0.5	-40 to +125	SOP8	F-C	FSs	YES
															SSOP-B8	FV-C	FSs	YES
															MSOP8	FVM-C	FSs	YES
BA2902Y	4	3 to 36	0.7	2.0 (Max: 3.8)	20 (Max: 60)	30	V _{EE} to V _{CC} -1.5	V _{EE} to V _{CC} -1.5	100	80	100	0.2	0.5	-40 to +125	SOP14	F-C	FSs	YES
															SSOP-B14	FV-C	FSs	YES
BA2904Y	2	3 to 36	0.5	2.0 (Max: 7.0)	20 (Max: 250)	30	V _{EE} to V _{CC} -1.5	V _{EE} to V _{CC} -1.5	100	80	100	0.2	0.5	-40 to +125	SOP8	F-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA2902Y	4	3 to 36	0.7	2.0 (Max: 7.0)	20 (Max: 250)	30	V _{EE} to V _{CC} -1.5	V _{EE} to V _{CC} -1.5	100	80	100	0.2	0.5	-40 to +125	SOP14	F-M	FSs	YES
															SSOP-B14	FV-M	FSs	YES

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

车载用高EMI耐受力接地检测运算放大器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New LM2904EY	2	3 to 32	0.6	2.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	-40 to +150	SOP8	F-C	FSs	YES
BA82904Y	2	3 to 36	0.5	2.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	-40 to +125	MSOP8	FVM-C	FSs	YES
															SOP8	F-C	FSs	YES
															MSOP8	FVM-C	FSs	YES
BA82902Y	4	3 to 36	0.7	2.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	-40 to +125	SOP14	F-C	FSs	YES
															SOP-J14	FJ-C	FSs	YES
															SSOP-B14	FV-C	FSs	YES
															TSSOP-B14J	FVJ-C	FSs	YES

车载用高EMI耐受力输入输出轨到轨运算放大器(EMARMOUR™系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD87581Y	1	4 to 14	2.3	1	0.001	3.5	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	60	80	3.5	4	-40 to +125	SSOP5	G-C	FSs	YES
BD87582Y	2	4 to 14	5	1	0.001	3.5	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	60	80	3.5	4	-40 to +125	MSOP8	FVM-C	FSs	YES
New BD87584Y	4	4 to 14	10	1	0.001	3.5	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	60	80	3.5	4	-40 to +125	SSOP-B14	FV-C	FSs	YES

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EMARMOUR™系列实现了超高级别的抗噪量。
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高速

输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BU7261/ BU7261S	1	1.8 to 5.5	250	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1.1	2.0	-40 to +85/ -40 to +105	SSOP5	G
BU7262/ BU7262S	2	1.8 to 5.5	550	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1.1	2.0	-40 to +85/ -40 to +105	SOP8	F
															MSOP8	FVM
BU7264/ BU7264S	4	1.8 to 5.5	1,100	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1.1	2.0	-40 to +85/ -40 to +105	VSON008X2030	NUX
															SOP14	F
BU7291/ BU7291S	1	2.4 to 5.5	470	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	3.0	2.8	-40 to +85/ -40 to +105	SSOP-B14	FV
															SSOP5	G
BU7294/ BU7294S	4	2.4 to 5.5	2,000	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	3.0	2.8	-40 to +85/ -40 to +105	SOP14	F
															SSOP-B14	FV
BU7295/ BU7295S	1	1.8 to 5.5	150	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1.0	1.0	-40 to +85/ -40 to +105	HVSOF5	HFV
															HVSOF5	HFV
BU7255/ BU7255S	1	2.4 to 5.5	540	1.0	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	3.4	4.0	-40 to +85/ -40 to +105	HVSOF5	HFV
															HVSOF5	HFV
BD7561/ BD7561S	1	5.0 to 14.5	440	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.9	1.0	-40 to +85/ -40 to +105	SSOP5	G
															SSOP5	G
BD7562/ BD7562S	2	5.0 to 14.5	900	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.9	1.0	-40 to +85/ -40 to +105	SOP8	F
															MSOP8	FVM

车载用输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
New BU7264Y	4	1.8 to 5.5	1,100	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1.1	2.0	-40 to +125	SSOP-B14	FV

接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	
BA3472	2	3 to 36	4.0	1.0	100	30	V _{EE} to V _{CC} -2.0	V _{EE} +0.3 to V _{CC} -1.0	100	97	97	10.0	4.0	-40 to +85	SOP8	F	
															SSOP-B8	FV	
															SOP-J8	FJ	
BA3472R														-40 to +105	MSOP8	FVM	
BA3472Y														-40 to +125	SOP8	F-LB	
BA3474	4	3 to 36	8.0	1.0	100	30	V _{EE} to V _{CC} -2.0	V _{EE} +0.3 to V _{CC} -1.0	100	97	97	10.0	4.0	-40 to +75	SOP14	F	
															-40 to +85	SSOP-B14	FV
															-40 to +105	TSSOP-B14J	FVJ
BA3474R														-40 to +105	SSOP-B14	FV	
BU7461/ BU7461S	1	1.7 to 5.5	0.15	1.0	0.001	8	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	95	60	80	1.0	1.0	-40 to +85/ -40 to +105	SSOP5	G	
BU7462/ BU7462S	2	1.7 to 5.5	0.3	1.0	0.001	8	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	95	60	80	1.0	1.0	-40 to +85/ -40 to +105	SOP8 MSOP8 VSON008X2030	F FVM NUX	
BU7464/ BU7464S	4	1.7 to 5.5	0.6	1.0	0.001	8	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	95	60	80	1.0	1.0	-40 to +85/ -40 to +105	SOP14	F	
BU7465/ BU7465S	1	1.7 to 5.5	0.12	1.0	0.001	8	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	100	60	80	1.0	1.2	-40 to +85/ -40 to +105	HVSOF5	HFV	
BU7481/ BU7481S	1	1.8 to 5.5	0.42	1.0	0.001	8	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	105	60	80	3.2	2.8	-40 to +85/ -40 to +105	SSOP5	G	
BU7485/ BU7485S	1	3.0 to 5.5	1.5	1.0	0.001	8	V _{SS} to V _{DD} -1.4	V _{SS} +0.1 to V _{DD} -0.1	105	60	80	10.0	10.0	-40 to +85/ -40 to +105	SSOP5	G	
BU7486/ BU7486S	2	3.0 to 5.5	3.0	1.0	0.001	8	V _{SS} to V _{DD} -1.4	V _{SS} +0.1 to V _{DD} -0.1	105	60	80	10.0	10.0	-40 to +85/ -40 to +105	SOP8 SSOP-B8 MSOP8	F FV FVM	
BU7487/ BU7487S	4	3.0 to 5.5	6.0	1.0	0.001	8	V _{SS} to V _{DD} -1.4	V _{SS} +0.1 to V _{DD} -0.1	105	60	80	10.0	10.0	-40 to +85/ -40 to +105	SOP14 SSOP-B14	F FV	
BU7495/ BU7495S	1	1.8 to 5.5	0.65	1.0	0.001	7	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	100	60	80	5.0	4.0	-40 to +85/ -40 to +105	HVSOF5	HFV	

高速

车载用接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA3472Y/ BA3472W	2	3 to 36	4.0	1.0 (Max: 10.0/ 1.0 (Max: 7.5))	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4.0	-40 to +125	SOP8	F-C	FSs	YES
															SSOP-B8	FV-C		YES
															MSOP8	FVM-C		YES
BA3474Y/ BA3474W	4	3 to 36	8.0	1.0 (Max: 10.0/ 1.0 (Max: 7.5))	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4.0	-40 to +125	SSOP-B14	FV-C	-/FSs	YES
															SSOP-B14			YES

车载用高EMI耐受力接地检测运算放大器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA83472Y	2	3 to 36	4.3	1	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	8.5	3	-40 to +125	SOP8	F-C	FSs	YES
New BA83474Y	4	3 to 36	8.6	1	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	8.5	3	-40 to +125	MSOP8	FVM-C	FSs	YES
															SSOP-B14	FV-C		

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*1 "ComfySIL™功能安全类别" 详情请参阅封二。

低消耗电流

输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BU7205/ BU7205S	1	1.8 to 5.5	0.4	1.0	0.001	1.2	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.0025	0.0025	-40 to +85/ -40 to +105	HVSOF5	HFV
BU7241/ BU7241S	1	1.8 to 5.5	70	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.4	0.9	-40 to +85/ -40 to +105	SSOP5	G
BU7242/ BU7242S	2	1.8 to 5.5	180	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.4	0.9	-40 to +85/ -40 to +105	SOP8	F
															MSOP8	FVM
															VSON008X2030	NUX
BU7244/ BU7244S	4	1.8 to 5.5	360	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.4	0.9	-40 to +85/ -40 to +105	SOP14	F
															SSOP-B14	FV
BU7245/ BU7245S	1	1.8 to 5.5	5	1.0	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.035	0.09	-40 to +85/ -40 to +105	HVSOF5	HFV
BU7265/ BU7265S	1	1.8 to 5.5	0.35	1.0	0.001	2.4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.0024	0.004	-40 to +85/ -40 to +105	SSOP5	G
															SOP8	F
BU7266/ BU7266S	2	1.8 to 5.5	0.7	1.0	0.001	2.4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.0024	0.004	-40 to +85/ -40 to +105	SSOP-B8	FV
															MSOP8	FVM
BU7271/ BU7271S	1	1.8 to 5.5	8.6	1.0	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	0.05	0.09	-40 to +85/ -40 to +105	SSOP5	G
BU7275/ BU7275S	1	1.8 to 5.5	40	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	-40 to +85/ -40 to +105	HVSOF5	HFV
BD12730	1	1.8 to 5.5	320	1.0	50	5	GND to V_{+}	0.1 to $V_{+}-0.1$	85	70	85	0.4	1.0	-40 to +85	SSOP5	G
BD12732	2	1.8 to 5.5	580	1.0	50	5	GND to V_{+}	0.1 to $V_{+}-0.1$	85	70	85	0.4	1.0	-40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
BD12734	4	1.8 to 5.5	1,200	1.0	50	5	GND to V_{+}	0.1 to $V_{+}-0.1$	85	70	85	0.4	1.0	-40 to +85	TSSOP-B8	FVT
															SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
BD7541/ BD7541S	1	5.0 to 14.5	180	1.0	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	-40 to +85/ -40 to +105	SSOP5	G
BD7542/ BD7542S	2	5.0 to 14.5	400	1.0	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	-40 to +85/ -40 to +105	SOP8	F
															MSOP8	FVM
LMR931	1	1.8 to 5.0	80	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	SSOP5	G
LMR932	2	1.8 to 5.0	135	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
LMR934	4	1.8 to 5.0	250	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	TSSOP-B8	FVT
															SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
LMR981	1	1.8 to 5.0	80	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	SSOP6	G
LMR982	2	1.8 to 5.0	135	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	MSOP10	FVM

接地检测运算放大器																		
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix		
BU7411/ BU7411S	1	1.6 to 5.5	0.35	1.0	0.001	2.4	V _{SS} to V _{DD} -1.0	V _{SS} +0.1 to V _{DD} -0.1	95	60	80	0.0024	0.004	-40 to +85/ -40 to +105	SSOP5	G		
BU7421/ BU7421S	1	1.7 to 5.5	8.5	1.0	0.001	4	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	100	60	80	0.05	0.09	-40 to +85/ -40 to +105	SSOP5	G		
BU7441/ BU7441S	1	1.7 to 5.5	50	1.0	0.001	6	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	95	60	80	0.3	0.6	-40 to +85/ -40 to +105	SSOP5	G		
BU7442/ BU7442S	2	1.7 to 5.5	100	1.0	0.001	6	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	95	60	80	0.3	0.6	-40 to +85/ -40 to +105	SOP8	F		
															MSOP8	FVM		
															VSON008X2030	NUX		
BU7444/ BU7444S	4	1.7 to 5.5	200	1.0	0.001	6	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	95	60	80	0.3	0.6	-40 to +85/ -40 to +105	SOP14	F		
BU7445/ BU7445S	1	1.7 to 5.5	40	1.0	0.001	8	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	100	60	80	0.25	0.4	-40 to +85/ -40 to +105	HVSOF5	HFV		
BU7475/ BU7475S	1	1.7 to 5.5	9	1.0	0.001	7	V _{SS} to V _{DD} -1.2	V _{SS} +0.1 to V _{DD} -0.1	100	60	80	0.05	0.1	-40 to +85/ -40 to +105	HVSOF5	HFV		
BD1321	1	2.7 to 5.5	130	0.1	15	70	V _{EE} to V _{CC} -0.8	V _{EE} +0.08 to V _{CC} -0.04	110	90	90	1.0	3.0	-40 to +85	SSOP5	G		
LMR321	1	2.7 to 5.5	130	0.1	15	70	V _{EE} to V _{CC} -0.8	V _{EE} +0.08 to V _{CC} -0.04	110	90	90	1.0	3.0	-40 to +85	SSOP5	G		
LMR324	4	2.7 to 5.5	410	1.0	15	70	V _{EE} to V _{CC} -0.8	V _{EE} +0.08 to V _{CC} -0.04	110	90	90	1.0	3.0	-40 to +85	SOP14	F		
															SOP-J14	FJ		
															SSOP-B14	FV		
															TSSOP-B14J	FVJ		
LMR341	1	2.7 to 5.5	100	0.25	0.001	24	V _{SS} to V _{DD} -1.0	V _{SS} +0.06 to V _{DD} -0.06	103	80	85	1.0	2.0	-40 to +85	SSOP6	G		
LMR342	2	2.7 to 5.5	200	0.25	0.001	24	V _{SS} to V _{DD} -1.0	V _{SS} +0.06 to V _{DD} -0.06	103	80	85	1.0	2.0	-40 to +85	SOP8	F		
															SOP-J8	FJ		
															SSOP-B8	FV		
															TSSOP-B8J	FVJ		
															MSOP8	FVM		
TSSOP-B8	FVT																	
LMR344	4	2.7 to 5.5	400	0.25	0.001	24	V _{SS} to V _{DD} -1.0	V _{SS} +0.06 to V _{DD} -0.06	103	80	85	1.0	2.0	-40 to +85	SOP14	F		
															SOP-J14	FJ		
															TSSOP-B14J	FVJ		
LMR358	2	2.7 to 5.5	210	0.1	15	70	V _{EE} to V _{CC} -0.8	V _{EE} +0.08 to V _{CC} -0.04	110	90	90	1.0	3.0	-40 to +85	SOP8	F		
															SOP-J8	FJ		
															SSOP-B8	FV		
															TSSOP-B8J	FVJ		
															MSOP8	FVM		
TSSOP-B8	FVT																	
LMR821	1	2.5 to 5.5	280	1.0	30	16	V _{SS} to V _{DD} -0.9	V _{SS} +0.12 to V _{DD} -0.1	100	85	85	2.0	5.0	-40 to +85	SSOP5	G		
LMR822	2	2.5 to 5.5	560	1.0	30	16	V _{SS} to V _{DD} -0.9	V _{SS} +0.12 to V _{DD} -0.1	100	85	85	2.0	5.0	-40 to +85	SOP8	F		
															SOP-J8	FJ		
															SSOP-B8	FV		
															TSSOP-B8J	FVJ		
															MSOP8	FVM		
TSSOP-B8	FVT																	
LMR824	4	2.5 to 5.5	1,120	1.0	30	16	V _{SS} to V _{DD} -0.9	V _{SS} +0.12 to V _{DD} -0.1	100	85	85	2.0	5.0	-40 to +85	SOP14	F		
															SOP-J14	FJ		
															TSSOP-B14J	FVJ		
TLR341	1	1.8 to 5.5	70	0.3	0.001	8	V _{SS} to V _{DD} -1.0	V _{SS} +0.055 to V _{DD} -0.05	100	90	95	1.2	2.2	-40 to +85	SSOP6	G		
TLR342	2	1.8 to 5.5	150	0.3	0.001	8	V _{SS} to V _{DD} -1.0	V _{SS} +0.055 to V _{DD} -0.05	100	85	95	1.0	1.2	-40 to +85	SOP8	F		
															SOP-J8	FJ		
															TSSOP-B8J	FVJ		
															TSSOP-B8	FVT		
TLR344	4	1.8 to 5.5	300	0.3	0.001	8	V _{SS} to V _{DD} -1.0	V _{SS} +0.055 to V _{DD} -0.05	100	90	95	1.2	2.2	-40 to +85	SOP14	F		
															SOP-J14	FJ		
															TSSOP-B14J	FVJ		
车载用输入输出轨到轨运算放大器																		
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7241Y	1	1.8 to 5.5	70	1.0	0.001	10	V _{SS} to V _{DD}	V _{SS} +0.05 to V _{DD} -0.05	100	70	80	0.4	1.0	-40 to +125	SSOP5	G-C	FSs	YES
BU7242Y	2	1.8 to 5.5	180	1.0	0.001	10	V _{SS} to V _{DD}	V _{SS} +0.05 to V _{DD} -0.05	100	70	80	0.4	1.0	-40 to +125	MSOP8	FVM-C	FSs	YES
BU7244Y	4	1.8 to 5.5	360	1.0	0.001	10	V _{SS} to V _{DD}	V _{SS} +0.05 to V _{DD} -0.05	100	70	80	0.4	1.0	-40 to +125	SSOP-B14	FV-C	FSs	YES

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

低噪声

输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μVrms)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μs)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}\text{C}$)	Package	Part No. Suffix
BA4510	2	± 1 to ± 3.5	5.0	1.0	80	0.7	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+0.1$ to $V_{CC}-0.1$	90	80	80	5.0	10.0	-20 to +75	SOP8	F
															SSOP-B8	FV
														-40 to +75	MSOP8	FVM
BA2107	1	± 1 to ± 7	1.8	1.0	150	0.9	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+0.1$ to $V_{CC}-0.1$	80	74	80	4.0	12.0	-40 to +85	TSSOP-B8	FVT
BA2115	2	± 1 to ± 7	3.5	1.0	150	0.9	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+0.1$ to $V_{CC}-0.1$	80	74	80	4.0	12.0		SOP8	F
														-40 to +85	SOP-J8	FJ
															MSOP8	FVM

车载用运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μVrms)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μs)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}\text{C}$)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA4558Y	2	± 4 to ± 15	3.0	0.5	60	1.8	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	1.0	2.0	-40 to +105	SOP8	F-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA4560Y	2	± 4 to ± 15	3.0	0.5	50	1.0	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4.0	4.0	-40 to +105	SOP8	F-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA4580Y	2	± 2 to ± 16	6.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	10.0	-40 to +105	SOP8	F-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA4584Y	4	± 2 to ± 16	11.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	10.0	-40 to +105	SSOP-B14	FV-M	FSs	YES

双电源运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μVrms)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μs)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}\text{C}$)	Package	Part No. Suffix
BA4558/BA4558R	2	± 4 to ± 15	3.0	0.5	60	1.8	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	1.0	2.0	-40 to +85/ -40 to +105	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															MSOP8	FVM
															TSSOP-B8	FVT
BA4560/BA4560R	2	± 4 to ± 15	4.0	0.5	50	1.0	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4.0	10.0	-40 to +85/ -40 to +105	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															MSOP8	FVM
															TSSOP-B8	FVT
BA4564R	4	± 4 to ± 15	6.0	0.5	50	1.0	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4.0	4.0	-40 to +105	SSOP-B14	FV
BA15218	2	± 2 to ± 16	5.0	0.5	50	1.0	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+2.0$ to $V_{CC}-2.0$	110	90	90	3.0	10.0	-40 to +85	SOP8	F
BA14741	4	± 2 to ± 18	3.0	1.0	60	2.0	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+2.5$ to $V_{CC}-2.5$	100	100	100	1.0	2.0	-40 to +85	SOP14	F
															SOP-J14	FJ
BA15532	2	± 3 to ± 20	8.0	0.5	200	1.5	$V_{EE}+2.0$ to $V_{CC}-2.0$	$V_{EE}+2.0$ to $V_{CC}-2.0$	94	100	100	8.0	20.0	-20 to +75	SOP8	F
BA4580R	2	± 2 to ± 16	6.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	5.0	-40 to +105	SOP8	F
															SOP-J8	FJ
															MSOP8	FVM
															TSSOP-B8	FVT
BA4584	4	± 2 to ± 16	12.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	5.0	-40 to +85	SSOP-B14	FV
BA4584R	4	± 2 to ± 9.5	11.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	5.0	-40 to +105	SOP14	F
															SSOP-B14	FV
LM4559	2	± 4 to ± 18	3.3	0.5	40	0.7	$V_{EE}+2.0$ to $V_{CC}-2.0$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	100	100	3.5	4.0	-40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8	FVT
															MSOP8	FVM
LM4565	2	± 4 to ± 18	4.5	0.5	70	0.6	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	100	100	5.0	10.0	-40 to +85	TSSOP-B8J	FVJ
															SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8	FVT

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*1 "ComfySIL™功能安全类别" 详情请参阅封二。

低偏置电压

双电源运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μs)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}\text{C}$)	Package	Part No. Suffix
BA4564W	4	± 4 to ± 15	6.0	0.5	50	25	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4.0	4.0	-40 to +105	SSOP-B14	FV

输入输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μs)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}\text{C}$)	Package	Part No. Suffix
BD5291	1	1.7 to 5.5	0.65	0.1	0.001	6	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	110	90	90	2.5	3.2	-40 to +85	SSOP5	G
															VSOP5	FVE

高性能

超低噪声接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Input Referred Noise Voltage (nV/√Hz)	Operating Temperature (°C)	Package	Part No. Suffix
LMR1801	1	2.2 to 5.5	0.95	5 (Max: 900)	0.0005	3.5	V _{SS} to V _{DD} -1.0	V _{SS} +0.05 to V _{DD} -0.05	140	100	125	2.5	6.0	5.0	-40 to +125	SSOP5 HVSO5F	G-LB HFV-LB
LMR1802	1	2.5 to 5.5	1.1	5 (Max: 450)	0.0005	3.5	V _{SS} to V _{DD} -1.0	V _{SS} +0.05 to V _{DD} -0.05	140	105	125	1.1	3.0	2.9	-40 to +125	SSOP5	G-LB
LMR1803	1	2.2 to 5.5	1.0	5 (Max: 150)	0.0005	3.5	V _{SS} to V _{DD} -1.0	V _{SS} +0.05 to V _{DD} -0.05	140	100	110	2.5	6.0	5.0	-40 to +125	SSOP5	G-LB

高速接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
LMR1701	1	2.7 to 5.5	9.6	1	0.0026	200	V _{SS} to V _{DD} -0.9	V _{SS} +0.1 to V _{DD} -0.1	120	80	86	80	150	-40 to +125	SSOP6	G-LB

高EMI耐受力 高速接地检测运算放大器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
Nano BD77501	1	7 to 15	1.3	4	0.001	7.5	V _{SS} to V _{DD} -2.0	V _{SS} +0.25 to V _{DD} -0.25	75	70	70	10	8	-40 to +85	SSOP5	G
Nano BD77502	2	7 to 15	2.6	4	0.001	7.5	V _{SS} to V _{DD} -2.0	V _{SS} +0.25 to V _{DD} -0.25	75	70	70	10	8	-40 to +85	MSOP8	FVM
Nano BD77504	4	7 to 15	5.2	4	0.001	7.5	V _{SS} to V _{DD} -2.0	V _{SS} +0.25 to V _{DD} -0.25	75	70	70	10	8	-40 to +85	SSOP-B14	FV

车载用超低噪声接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Input Referred Noise Voltage (nV/√Hz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LMR1801Y	1	2.2 to 5.5	0.95	5 (Max: 950)	0.0005	3.5	V _{SS} to V _{DD} -1.0	V _{SS} +0.05 to V _{DD} -0.05	140	100	110	2.5	6.0	5	-40 to +125	SSOP5	G-C	FSs	YES
LMR1802Y	1	2.5 to 5.5	1.1	5 (Max: 450)	0.0005	3.5	V _{SS} to V _{DD} -1.0	V _{SS} +0.05 to V _{DD} -0.05	140	105	125	1.1	4.4	2.9	-40 to +125	SSOP5	G-C	FSs	YES

车载用高精度输入/输出轨到轨运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New TLR376Y	1	2.5 to 5.5	0.645	1.7 (Max: 550)	0.0005	50	V _{SS} to V _{DD}	V _{SS} +0.015 to V _{DD} -0.025	137	100	95	2	4	-40 to +125	SSOP5	G-C	FSs	YES
New TLR2376Y	2	2.5 to 5.5	1.245	1.7 (Max: 550)	0.0005	50	V _{SS} to V _{DD}	V _{SS} +0.015 to V _{DD} -0.025	137	100	95	2	4	-40 to +125	MSOP8	FVM-C	FSs	YES
New TLR377Y	1	2.5 to 5.5	0.645	1.7 (Max: 1300)	0.0005	50	V _{SS} to V _{DD}	V _{SS} +0.015 to V _{DD} -0.025	137	100	95	2	4	-40 to +125	SSOP5	G-C	FSs	YES
New TLR2377Y	2	2.5 to 5.5	1.245	1.7 (Max: 1300)	0.0005	50	V _{SS} to V _{DD}	V _{SS} +0.015 to V _{DD} -0.025	137	100	95	2	4	-40 to +125	MSOP8	FVM-C	FSs	YES

车载用高速接地检测运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	Automotive Grade AEC-Q100
LMR1701Y	1	2.7 to 5.5	9.6	1	0.0026	200	V _{SS} to V _{DD} -0.9	V _{SS} +0.1 to V _{DD} -0.1	120	80	86	80	150	-40 to +125	SSOP6	G-C	YES

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EMARMOUR 系列实现了超高级别的抗噪量。
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比较器

通用

集电极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BA2901/BA2901S	4	2 to 36	0.8	2	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125/ -40 to +105	SOP14 SSOP-B14	F FV
BA2901Y	4	2 to 36	0.8	2	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125	SOP14	F-LB
BA2903/BA2903S	2	2 to 36	0.6	2	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125/ -40 to +105	SOP8 SSOP-B8	F FV
BA2903Y	2	2 to 36	0.6	2	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125	MSOP8	FVM
BA8391	1	2 to 36	0.3	2	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +85	SOP8	F-LB
LM2901	4	3 to 32	1.2	1	50	16	V _{EE} to V _{CC} -1.5	120	1.0	-40 to +125	SOP14 SOP-J14 SSOP-B14	F FJ FV
LM2903	2	3 to 32	0.6	1	50	16	V _{EE} to V _{CC} -1.5	120	1.0	-40 to +125	TSSOP-B14J SOP8 SOP-J8 SSOP-B8	FVJ F FJ FV
LM339	4	3 to 32	1.2	1	50	16	V _{EE} to V _{CC} -1.5	120	1.0	-40 to +85	MSOP8 TSSOP-B8	FVM FVT
LM393	2	3 to 32	0.6	1	50	16	V _{EE} to V _{CC} -1.5	120	1.0	-40 to +85	SOP14 SOP-J14 SSOP-B14 TSSOP-B14J	F FJ FV FVJ
											SOP8 SOP-J8 SSOP-B8	F FJ FV
											TSSOP-B8J	FVJ
											MSOP8	FVM
											TSSOP-B8	FVT

通用

放大器 / 比较器

车载用集电极开路比较器														
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA2903Y	2	2 to 36	0.6	2 (Max: 4)	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125	SOP8	F-C	FSs	YES
											SSOP-B8	FV-C	FSs	YES
											MSOP8	FVM-C	FSs	YES
BA2901Y	4	2 to 36	0.8	2 (Max: 4)	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125	SOP14	F-C	FSs	YES
											SSOP-B14	FV-C	FSs	YES
BA2903Y	2	2 to 36	0.6	2 (Max: 7)	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125	SOP8	F-M	FSs	YES
											SSOP-B8	FV-M	FSs	YES
											MSOP8	FVM-M	FSs	YES
BA2901Y	4	2 to 36	0.8	2 (Max: 7)	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125	SOP14	F-M	FSs	YES
											SSOP-B14	FV-M	FSs	YES

车载用高EMI耐受力集电极开路比较器(EMARMOUR™系列)														
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA82903Y	2	2 to 36	0.6	2	50	16	V _{EE} to V _{CC} -1.5	100	1.3	-40 to +125	SOP8	F-C	FSs	YES
			MSOP8								FVM-C	FSs	YES	
BA82901Y	4	3 to 32	0.8	2	50	16	V _{EE} to V _{CC} -1.5	120	1.3	-40 to +150	SOP14	F-C	FSs	YES
LM2901EY	4		1.2								SSOP-B14	FV-C	FSs	YES
LM2903EY	2		0.6				V _{EE} to V _{CC} -1.5	120	1.3		SOP-J8	FJ-C	FSs	YES

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高速

推挽输出比较器												
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7251/BU7251S	1	1.8 to 5.5	15	1	0.001	6	V _{SS} to V _{DD}	90	0.55	-40 to +85/ -40 to +105	SSOP5	G
BU7252/BU7252S	2	1.8 to 5.5	35	1	0.001	6	V _{SS} to V _{DD}	90	0.55	-40 to +85/ -40 to +105	SOP8	F
											MSOP8	FVM
BU5265/BU5265S	1	1.8 to 5.5	22	1	0.001	3.5	V _{SS} to V _{DD}	90	0.5	-40 to +85/ -40 to +105	HVSOF5	HFV
漏极开路比较器												
BU7250/BU7250S	1	1.8 to 5.5	15	1	0.001	6	V _{SS} to V _{DD}	90	0.75	-40 to +85/ -40 to +105	SSOP5	G
BU7253/BU7253S	2	1.8 to 5.5	35	1	0.001	6	V _{SS} to V _{DD}	90	0.75	-40 to +85/ -40 to +105	SOP8	F

低消耗电流

推挽输出比较器														
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix		
BU7231/BU7231S	1	1.8 to 5.5	5	1	0.001	6	V _{SS} to V _{DD}	90	1.7	-40 to +85/ -40 to +105	SSOP5	G		
BU7232/BU7232S	2	1.8 to 5.5	10	1	0.001	6	V _{SS} to V _{DD}	90	1.7	-40 to +85/ -40 to +105	SOP8	F		
											MSOP8	FVM		
BU5255/BU5255S	1	1.8 to 5.5	6.5	1	0.001	3.5	V _{SS} to V _{DD}	90	1.6	-40 to +85/ -40 to +105	HVSOF5	HFV		
车载用推挽输出比较器														
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7232Y	2	1.8 to 5.5	10	1	0.001	7	V _{SS} to V _{DD}	100	1.7	-40 to +125	MSOP8	FVM-C	FSs	YES
漏极开路比较器														
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix		
BU7230/BU7230S	1	1.8 to 5.5	5	1	0.001	6	V _{SS} to V _{DD}	90	1.8	-40 to +85/ -40 to +105	SSOP5	G		
BU7233/BU7233S	2	1.8 to 5.5	10	1	0.001	6	V _{SS} to V _{DD}	90	1.8	-40 to +85/ -40 to +105	SOP8	F		
车载用漏极开路比较器														
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7233Y	2	1.8 to 5.5	10	1	0.001	7	V _{SS} to V _{DD}	100	1.8	-40 to +125	SOP8	F-C	FSs	YES

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 *1 “ComfySIL™功能安全类别” 的详情请参阅封二。

时钟/计时器

高性能时钟发生器

P.21

CR控制方式计时器IC

P.21

高性能时钟发生器

数码相机用时钟发生器

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Video Clock (The output which can be selected) (MHz)	CCD Clock (The output which can be selected) (MHz)	USB Clock (MHz)	Jitter 1 σ Typ (ps)	Package
BU2394KN	3.0 to 3.6	14.318182/ 28.636363	14.318182/ 17.734450	135.000000/ 108.000000/ 98.181818/ 110.000000	48.008022	30	VQFN20
BU2396KN	3.0 to 3.6	12.000000	27.000000	24.000000/ 30.000000/ 36.000000	12.000000	50	VQFN20

A/V设备用DVD-Video标准时钟发生器

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Output Frequency (MHz)										Jitter 1 σ Typ (ps)	Long-term Jitter P-P Typ (ns)	Package
			DVD-Video Clock			DVD, Audio, CD Clock (The output which can be switched)				System Clock					
			Video1	Video2	Video3	768fs	512fs	384fs	Other	768fs	384fs	Other			
BU2360FV	2.7 to 3.6	27.0000	27.0000	—	—	—	24.5760/ 22.5792	—	—	33.8688	—	—	70	2.5 (Audio)	SSOP-B16
BU2362FV	2.7 to 3.6	27.0000	27.0000	—	—	—	24.5760/ 22.5792	—	36.8640/ 16.9344	33.8688	16.9344	36.864	70	12 (Audio)	SSOP-B16

A/V设备用VCXO内置时钟发生器

Part No.	Supply Voltage (V)	VCXO (Reference Clock)	Clock Buffer	PLL Output Frequency (MHz)										Jitter 1σ Typ (ps)	C/N Typ (dB)	Package
				DVD-Video Clock			DVD, Audio, CD Clock (The output which can be switched)		System Clock							
				Video1	Video2	Video3	768fs		768fs	512fs	384fs	Other				
BU3087FV	3.135 to 3.465	Tuning range 27MHz±105ppm Typ	—	27.000000	—	74.250000 Modulation/ ±0.25%, ±0.50%, ±0.75%, ±1.00%	—		—	—	—	—	30	HD-Video -70	SSOP-B16	

数码相机用时钟发生器可生成CCD、USB和视频3种时钟

A/V设备用DVD-Audio标准时钟发生器采用DVD-Audio时钟标准生成DVD/CD-Audio、DVD-Video时钟

A/V设备用DVD-Video标准时钟发生器采用DVD-Video时钟标准生成DVD/CD-Audio、DVD-Video时钟

A/V设备用VCXO内置时钟发生器内置VCXO功能，实现高精度外部同步

CR控制方式计时器IC

CR控制方式计时器IC

Part No.	Supply Voltage (V)	PWM Frequency (Hz)	Duty (%)	Circuit Current (mA)	Function	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD9555FVM-C	4.5 to 42.0	1 to 10k	1 to 99	1	PWM/Duty 100% Switching terminal	-40 to +125	MSOP8	FSs	YES

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

开关/IPD/多路转换器/逻辑

车载用标准逻辑IC	P.22	标准逻辑IC	P.22
串行输入/并行输出驱动器	P.23	USB开关IC	P.23
IPD(智能功率开关)	P.23		

车载用标准逻辑IC

逻辑门(单路)

Type	Package/Part No.		Function	Supply Voltage (V)	H Input Voltage (Min) (V)	L Input Voltage (Min) (V)	Operating Temperature (°C)	Output Delay Time $V_{CC}=4.5V$ to $5.5V$ (Max) (ns)	Automotive Grade AEC-Q100
	SSOP5	SSOP6							
New BD7LS00	BD7LS00G-C	—	Single 2-input NAND gate	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	10.0	YES
BD7LS02	BD7LS02G-C	—	Single 2-input NOR gate	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	10.0	YES
New BD7LS04	BD7LS04G-C	—	Single Inverter	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	10.0	YES
BD7LS08	BD7LS08G-C	—	Single 2-input AND gate	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	10.0	YES
BD7LS07	BD7LS07G-C	—	Single Buffer with Open-drain	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	9.0	YES
New BD7LS14	BD7LS14G-C	—	Single Schmitt Trigger Inverter	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	11.0	YES
New BD7LS17	BD7LS17G-C	—	Single Schmitt Trigger Buffer	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	11.0	YES
New BD7LS32	BD7LS32G-C	—	Single 2-input OR gate	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	10.0	YES
New BD7LS34	BD7LS34G-C	—	Single Buffer	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	10.0	YES
BD7LS125	BD7LS125G-C	—	Single 3-state Buffer	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	10.0	YES
New BD7LS97	—	BD7LS97G-C	Configurable Function gate	1.65 to 5.5	$V_{CC} \times 0.7$	$V_{CC} \times 0.3$	-40 to +125	13.0	YES

标准逻辑IC

模拟开关/模拟开关(单路)

Type	Package/Part No.			Function	Supply Voltage (V)	Input Voltage (V)		ON Resistance (Max) (Ω)	Control-Output Propagation Delay Time (Typ) (ns)	IN-Out Propagation Delay Time (Typ) (ns)	Max Propagation Frequency (Typ) (MHz)
	SOP14	SSOP-B14	SSOP5			H Level (Min)	L Level (Max)				
BU4066BC	BU4066BCF	BU4066BCFV	—	Quad Analog Switch	3 to 18	3.5	1.5	950	60	20	—
BU4S66	—	—	BU4S66G2	Single Analog Switch	3 to 16	3.5	1.5	950	80	15	—

多路转换器

Type	Package/Part No.		Function	Supply Voltage (V)	Input Voltage (V)		ON Resistance (Max) (Ω)	Control-Output Propagation Delay Time (Typ) (ns)	IN-Out Propagation Delay Time (Typ) (ns)	Max Propagation Frequency (Typ) (MHz)
	SOP16	SSOP-B16			H Level (Min)	L Level (Max)				
BU4051BC	BU4051BCF	BU4051BCFV	Analog Multiplexer/Demultiplexer (8 $\leftrightarrow$ 1)	3 to 18	3.5	1.5	950	170	15	20
BU4052BC	BU4052BCF	BU4052BCFV	Dual Analog Multiplexer/Demultiplexer (4 $\leftrightarrow$ 1)	3 to 18	3.5	1.5	950	170	15	20
BU4551B	BU4551BF	BU4551BFV	Quad Analog Multiplexer/Demultiplexer (2 $\leftrightarrow$ 1)	3 to 16	3.5	1.5	1,100	360	35	15

逻辑门

Type	Package/Part No.		Function	Supply Voltage (V)	Input Voltage (V)		Hysteresis Voltage (V)	Output Voltage $I_{OUT}=1\mu A$ (V)		Propagation Delay Time (Typ) (ns)
	SOP14	SSOP-B14			H Level (Min)	L Level (Max)		H Level (Min)	L Level (Max)	
BU4030B	BU4030BF	—	Quad ExclusiveOR Gate	3 to 16	3.5	1.5	—	4.95	0.05	90

逻辑门(单路)

Type	Package/Part No.		Function	Supply Voltage (V)	Input Voltage (V)		Hysteresis Voltage (V)	Output Voltage $I_{OUT}=1\mu A$ (V)		Propagation Delay Time (Typ) (ns)
	SSOP5	SSOP6			H Level (Min)	L Level (Max)		H Level (Min)	L Level (Max)	
BU4S01	BU4S01G2	—	Single NOR Gate	3 to 16	3.5	1.5	—	4.95	0.05	85
BU4S11	BU4S11G2	—	Single NAND Gate	3 to 16	3.5	1.5	—	4.95	0.05	85
BU4SU69	BU4SU69G2	—	Single Unbuffer Inverter	3 to 16	4.0	1.0	—	4.95	0.05	55
BU4S71	BU4S71G2	—	Single OR Gate	3 to 16	3.5	1.5	—	4.95	0.05	90
BU4S81	BU4S81G2	—	Single AND Gate	3 to 16	3.5	1.5	—	4.95	0.05	90
BU4S584	BU4S584G2	—	Single Schmitt Trigger	3 to 16	3.5	1.5	0.15 to 0.60	4.95	0.05	125

功能逻辑

Type	Package/Part No.		Function	Supply Voltage (V)	Input Voltage (V)		Output Voltage $I_{OUT}=1\mu A$ (V)		Propagation Delay Time (Typ) (ns)	Max Clock Frequency (Typ) (MHz)	Set up Time (Typ) (ns)	Hold Time (Typ) (ns)
	SOP16	SSOP-B16			H Level (Min)	L Level (Max)	H Level (Min)	L Level (Max)				
BU4094BC	BU4094BCF	BU4094BCFV	8-Stage Shift/Store Register (3-State)	3 to 18	3.5	1.5	4.95	0.05	420	2.5	20	10

串行输入/并行输出驱动器

串并2输入驱动器							
Part No.	Serial Number of Input	Parallel Number of Output	Supply Voltage (V)	Max Output Current (mA)	Max Output Voltage (V)	Output type	Package
BU2098F	2	8	2.7 to 5.5	25	15	Open drain	SOP16
BU2090F	2	12	2.7 to 5.5	25	25	Open drain	SOP16
BU2090FS	2	12	2.7 to 5.5	25	25	Open drain	SSOP-A16
串并4输入驱动器							
BU2050F	4	8	4.5 to 5.5	25	5.5	CMOS	SOP14
BU2092F	4	12	2.7 to 5.5	25	25	Open drain	SOP18
BU2092FV	4	12	2.7 to 5.5	25	25	Open drain	SSOP-B20
BU2099FV	4	12	2.7 to 5.5	25	25	Open drain	SSOP-B20
BU2152FS	4	24	2.7 to 5.5	25	5.5	CMOS	SSOP-A32

串并2输入驱动器：时钟、数据的2线接口
串并4输入驱动器：时钟、数据、锁存器、芯片启动的4线接口

USB开关IC

SP型(Single Pole)													
Part No.	Supply Voltage (V)			USB Switch (ch)	UART Switch (ch)	Circuit Current (μA)	USB Switch ON Resistance (Ω)	USB Switch ON Capacitance (pF)	Package				
	USB	UART											
BH6260MWX	2.9 to 3.7		1.7 to 3.6	1	1	0	5	10	USON016X3315				
DP型(Double Pole)													
BD11600NUX	2.5 to 5.5		—	1	—	18	3	6	VSON010X3020				
BD11603MWX	2.5 to 5.5		—	2	—	18	3	7	USON016X3315				
BD11601NUX	2.5 to 5.5		—	1	—	18	2.5	6	VSON008X2020				
BD11670GWL	3.8 to 28.0		—	1	—	26	5	6	UCSP50L1C				
内置OVP的微型USB开关 USB2.0/MHL™/Audio													
Part No.	Supply Voltage (V)			USB/MHL Switch (ch)	MIC Switch (ch)	HP Switch (ch)	VBUS Signal Path (ch)	ID-CBUS Path (ch)	OTG-VBUS Voltage Path (ch)	Stand by Current (μA)	USB/MHL Switch ON Resistance (Ω)	USB/MHL Switch ON Capacitance (pF)	Package
	VBUS	VBAT	VDDIO										
BD91411GW	3.8 to 28.0	2.9 to 4.6	1.7 to 3.0	2	1 (mono)	1	1	1	1	6	5	6	UCSP75M3

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IPD(智能功率开关)

高边开关

L字型保护智能高边开关									
Part No.	Power Supply (V)	V _{DS} (Max) (V)	ch	I _{ocp} (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1HD045EFJ-C	6.0 to 28.0	41.0	1	21	45	Self-restart	HTSOP-J8	FSs	YES
BV2HC045EFU-C	6.0 to 19.0	41.0	2	21	45	Off-latch	HSSOP-C16	FSs	YES
BV2HD045EFU-C	6.0 to 28.0	41.0	2	21	45	Self-restart	HSSOP-C16	FSs	YES
BV2HD070EFU-C	6.0 to 28.0	41.0	2	10	70	Self-restart	HSSOP-C16	FSs	YES
智能高边开关									
Part No.	Power Supply (V)	V _{DS} (Max) (V)	ch	I _{ocp} (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1HD090FJ-C	4.5 to 36.0	45.0	1	2.7	90	Self-restart	SOP-J8	FSs	YES
BV1HJ045EFJ-C	6.0 to 28.0	45.0	1	5.0	45	Self-restart	HTSOP-J8	FSs	YES
BV1HL045EFJ-C	6.0 to 28.0	45.0	1	2.5	45	Self-restart	HTSOP-J8	FSs	YES
BD1HC500EFJ-C	4.0 to 18.0	44.5	1	0.8	500	Off-latch	HTSOP-J8	FSs	YES
BD1HC500FVM-C	4.0 to 18.0	44.5	1	0.8	500	Off-latch	MSOP8	FSs	YES
BD1HC500HFN-C	4.0 to 18.0	44.5	1	0.8	500	Off-latch	HSOP8	FSs	YES
BD1HD500EFJ-C	4.0 to 18.0	44.5	1	0.8	500	Self-restart	HTSOP-J8	FSs	YES
BD1HD500FVM-C	4.0 to 18.0	44.5	1	0.8	500	Self-restart	MSOP8	FSs	YES
BD1HD500HFN-C	4.0 to 18.0	44.5	1	0.8	500	Self-restart	HSOP8	FSs	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

低边开关

智能低边开关

Part No.	Power Supply (V)	V _{DS} (Max) (V)	ch	I _{ocp} (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BV1LA025EFJ-C	3.5 to 5.5	42	1	9	25	Self-restart	HTSOP-J8	FSs	YES
BV1LB010FPJ-C	3.5 to 5.5	38	1	42	10	Self-restart	TO252-J3	—	YES
New BV1LB025EFJ-C	3.5 to 5.5	42	1	35	25	Self-restart	HTSOP-J8	FSs	YES
BV1LB028FPJ-C	3.0 to 5.5	42	1	30	28	Self-restart	TO252-J3	FSs	YES
BV1LB045FPJ-C	3.0 to 5.5	42	1	18	45	Self-restart	TO252-J3	FSs	YES
BV1LB085FJ-C	3.0 to 5.5	42	1	13	85	Self-restart	SOP-J8	FSs	YES
BV1LB150FJ-C	3.0 to 5.5	42	1	6.5	150	Self-restart	SOP-J8	FSs	YES
BV1LB300FJ-C	3.0 to 5.5	42	1	1.7	300	Self-restart	SOP-J8	FSs	YES
New BV1LC085EFJ-C	3.0 to 5.5	42	1	4	85	Self-restart	HTSOP-J8	FSs	YES
New BV1LC150EFJ-C	3.0 to 5.5	42	1	3.5	150	Self-restart	HTSOP-J8	FSs	YES
New BV1LC300EFJ-C	3.0 to 5.5	42	1	1.7	350	Self-restart	HTSOP-J8	FSs	YES
BV1LC105FJ-C	3.0 to 5.5	42	1	3	105	Self-restart	SOP-J8	FSs	YES
BV1LC300FJ-C	3.0 to 5.5	42	1	1.7	350	Self-restart	SOP-J8	FSs	YES
BV1LF080EFJ-C	3.5 to 6.5	42	1	5.0	80	Self-restart	HTSOP-J8	FSs	YES
BD1LB500EFJ-C	3.5 to 5.5	42	1	0.8	350	Self-restart	HTSOP-J8	FSs	YES
BD1LB500FVM-C	3.5 to 5.5	42	1	0.8	350	Self-restart	MSOP8	FSs	YES
BM2LB110FJ-C	3.0 to 5.5	42	2	2.5	120	Self-restart	SOP-J8	—	YES
BM2LB150FJ-C	3.0 to 5.5	42	2	6.5	150	Self-restart	SOP-J8	FSs	YES
BM2LB300FJ-C	3.0 to 5.5	42	2	1.7	300	Self-restart	SOP-J8	FSs	YES
BM2LC105FJ-C	3.0 to 5.5	42	2	3	105	Self-restart	SOP-J8	FSs	YES
BM2LC120FJ-C	3.0 to 5.5	42	2	3	120	Self-restart	SOP-J8	FSs	YES
BM2LC300FJ-C	3.0 to 5.5	42	2	1.7	350	Self-restart	SOP-J8	FSs	YES
BD8LA700EFV-C	3.0 to 5.5 (Digital)/ 4.0 to 5.5 (Analog)	45	8	0.5	700	Off-latch	HTSSOP-B24	FSs	YES
BD8LB600FS-C	3.0 to 5.5 (Digital)/ 4.0 to 5.5 (Analog)	45	8	1	600	Self-restart	SSOP-A24	FSs	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

数据转换器

D/A转换器

P.25

A/D转换器

P.25

D/A转换器

8bit

标准8bit分辨率 用8bit精度(256级)可控制输出电压。这是更普及的类型，功能也非常丰富。

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Load Current (mA)	Data Transfer Clock Frequency (MHz)	Input type	Data Latch Method	Package
BH2219FVM	2.7 to 5.5	2	0.4	±1.0	±1.5	±1.0	10	CMOS	LD	MSOP8
BH2227FV	2.7 to 5.5	4	0.8	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B14
BH2228FV	2.7 to 5.5	6	0.8	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B14
BH2226FV	2.7 to 5.5	8	1.1	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B16
BH2223FV	2.7 to 5.5	10	1.6	±1.0	±1.5	±1.0	10	CMOS	LD	SSOP-B16
BH2221FV	2.7 to 5.5	12	1.6	±1.0	±1.5	±1.0	10	CMOS	LD	SSOP-B20

10bit

10bit分辨率

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Load Current (mA)	Data Transfer Clock Frequency (MHz)	Input type	Data Latch Method	Package
BU2508FV	4.5 to 5.5	4	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B14
BU2507FV	4.5 to 5.5	6	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B14
BU2506FV	4.5 to 5.5	8	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B20
BU2505FV	4.5 to 5.5	10	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B20
BU22210MUV	2.7 to 5.5	10	1.2	±0.5	±2.0	±1.0	10	TTL	CSB	VQFN016V3030

A/D转换器

高精度12bit A/D转换器(工业设备用)

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Sampling Rate (MSPS)	I/F	Architecture	Package
New BU79100G-LA	2.7 to 5.25	1	1.6	-1.0 to +1.0	-1.1 to +1.0	1.0	SPI	SAR	SSOP6

接口

LVDS接口IC	P.26	时序控制器	P.26
多输入监控IC	P.27	LIN收发器	P.27
CAN收发器	P.27	CXPI收发器	P.27
USB Type-C Power Delivery	P.28		

LVDS接口IC

27bit LVDS发射器 27 : 4串行器									
Part No.	Type	bits (bit)	Color Depth	Input Specification	Output Specification	Clock Frequency (MHz)	Supply Voltage (V)	Operating Temperature (°C)	Package
BU90T81	Serializer	27	8	LVC MOS	LVDS Single Link	20 to 112	1.65 to 1.95	-20 to +85	VBGA048W040
27bit LVDS发射器 27 : 8串行器									
BU90T82	Serializer	27	8	LVC MOS	LVDS Dual Link	10 to 174	1.62 to 1.98/ 1.62 to 3.60	-40 to +85	SBGA072T070A
35bit LVDS发射器 35 : 5串行器									
BU8254KVT	Serializer	35	10	LVC MOS	LVDS Single Link	8 to 112	3.0 to 3.6	-40 to +85	TQFP64V
BU8254GUW	Serializer	35	10	LVC MOS	LVDS Single Link	8 to 112	3.0 to 3.6	-20 to +85	VBGA099W060
56bit LVDS发射器 56 : 8串行器									
BU7988KVT	Serializer	56	8	LVC MOS	LVDS Dual Link	8 to 112	3.0 to 3.6	-20 to +85	TQFP100V
35bit LVDS接收器 5 : 35解串器									
BU90R104	Deserializer	35	10	LVDS Single Link	LVC MOS	8 to 112	2.3 to 3.6	-40 to +85	TQFP64V
56bit LVDS接收器 8 : 56解串器									
BU7985KVT	Deserializer	56	8	LVDS Dual Link	LVC MOS	20 to 112	3.0 to 3.6	-20 to +85	TQFP100V
67bit LVDS接收器 10 : 67解串器									
BU90R102	Deserializer	67	10	LVDS Dual Link	LVC MOS	8 to 160	2.3 to 3.6	-40 to +85	HQFP144VM
70bit LVDS分配器									
BU90RT102	Serializer/ Deserializer	70	10	LVDS	LVDS	20 to 135	3.0 to 3.6	-20 to +85	HTSSOP-C64
4bit LVDS驱动器									
BU90LV047A	Driver	4	—	LVC MOS	LVDS	250	3.0 to 3.6	-40 to +85	SSOP-B16
4bit LVDS接收器									
BU90LV048	Receiver	4	—	LVDS	LVC MOS	250	3.0 to 3.6	-40 to +85	SSOP-B16
4bit LVDS收发器									
BU90LV049A	Transceiver	4	—	LVC MOS/LVDS	LVC MOS/LVDS	250	3.0 to 3.6	-40 to +85	SSOP-B16

时序控制器

支持FHD、WUXGA时序控制器									
Part No.	Supply Voltage (V)	Input Specification	Output Specification	Input bits (bit)	Output bits (bit)	Clock Frequency (MHz)	Operating Temperature (°C)	Resolution	Package
BU90AM4-03	1.62 to 3.63/ 1.62 to 2.20/ 1.08 to 1.32	MIPI DSI 4lane	P2P 8lane	8/6	8/6	40 to 200	-20 to +70	up to WUXGA (1920x1200)	UQFN54

多输入监控IC

22ch型											
Part No.	Supply Voltage (V)	Switch Input Number	Switch Input Voltage Range (V)	Wetting Current (mA)	Operating Current Intermittent Monitoring 50ms (Max) (μA)	Control I/F	Clock Frequency (MHz)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3378MUV-M	6.0 to 28.0 (VPUB/VPUB) 3.1 to 5.25 (VDDI)	22	-14 to +40	1/3/5/10/15 (Pull up/Pull down)	100	SPI	up to 4.4	-40 to +125	VQFN48MCV070	FSs	YES
33ch型											
BD3381EKV-C	6.0 to 28.0 (VPUB/VPUB) 3.1 to 5.25 (VDDI)	33	-14 to +40	1/3/5/10/15 (Pull up/Pull down)	110	SPI	up to 4.4	-40 to +125	HTQFP64BV	FSs	YES
10ch型											
BD3376EFV-C	8.0 to 26.0 (VPUB/VPUB) 3.1 to 5.25 (VDDI)	10	-14 to +40	1/3/5/10/15 (Pull up/Pull down)	100	SPI	up to 4.4	-40 to +125	HTSSOP-B30	FSs	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

LIN收发器

LIN收发器									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of LIN pin (V)	Baud Rates (Max) (kbps)	Supply Current at Sleep Mode (Typ) (μA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41030FJ-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A	5 to 27	-40 to +125	-27 to +40	20	3	SOP-J8	FSs	YES
BD41030HFN-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A	5 to 27	-40 to +125	-27 to +40	20	3	HSO8	FSs	YES

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CAN收发器

CAN收发器									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of CAN pin (V)	Data Rates (Max) (Mbps)	Supply Current at Standby Mode (Typ) (μA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41041FJ-C	ISO 11898-2: 2016	4.75 to 5.25	-40 to +125	-27 to +40	1	10	SOP-J8	FSs	YES
BD41044FJ-C	ISO 11898-2: 2016	4.75 to 5.25	-40 to +125	-27 to +40	5	10	SOP-J8	FSs	YES

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CXPI收发器

CXPI收发器									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of BUS (V)	Baud Rates (kbps)	Supply Current at Sleep Mode (Typ) (μA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41003FJ-C	JASO_D015_3	7 to 18	-40 to +125	-27 to +40	18.8 to 20.0	3	SOPJ-8	FSs	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

USB Type-C Power Delivery

供电用(电力用途：供电，数据传输用途：DFP、内部分流调节、可调OCP、可调OVP、内部Vconn开关)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Initial Supply Capable Voltage/Current (V/A)	Tolerant Voltage at CC Pins (V)	Gate Drivers for Nch FET	After OCP Behavior After OVP Behavior	DP Alternate Mode	Operating Temperature (°C)	Package
BM92A20MWV	3.1 to 20.0	1.7 to 5.5	R1.2/R2.0 (Internal Shunt Reg. for ACDC)	5/3, 12/3.75, 15/3, 16/2.8, 19/2.36, 19.6/2.29, 20/2.25	6.5	For Source: 1pair	OCP: Automatic recovery OVP: Automatic recovery	—	-30 to +105	UQFN40V5050A
BM92A21MWV				5/3, 9/3, 12/3, 15/3, 20/3		For Source: 2pair				UQFN40V5050A
BM92A50MWV			R1.2/R2.0	5/0.5, 12 to 20 Variable/2.25						UQFN40V5050A
BD93F50MWV	3.1 to 22.0		R1.3/R3.0	5V to 20V Selectable	28	For Source: 1pair (For Sink: 1pair)	OCP: Selectable OVP: Selectable	DP_SINK with Ext-MCU	-30 to +85	UQFN040V5050

供电受电用(电力用途：供电/受电/DRP，数据传输用途：DFP/UFP/DRD)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Connected The Required Initial Voltage (V)		CC terminal voltage (V)	Gate Drivers for Nch FET	DP Alternate Mode	Operating Temperature (°C)	Package
				Dead Battery	Non Dead Battery					
BM92A30MWV	3.1 to 20.0	1.7 to 5.5	R1.2/R2.0	12 to 20 (It requires the maximum voltage had by the source side between 12V to 20V.)*1	5	6.5	For Sink: 1pair For Source: 1pair	DP_ SOURCE	-30 to +105	UQFN40V5050A
BM92A34MWV				9 (Power Delivery communication is contracted only for the stated voltage.)*1						UQFN40V5050A

受电用(电力用途：受电，数据传输用途：UFP)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Connected The Required Initial Voltage (V) Without Ext-MCU	Start of Automatic Power Receiving Without Ext-MCU	CC terminal voltage (V)	Gate Drivers for Nch FET	DP Alternate Mode	Operating Temperature (°C)	Package
BM92A12MWV	3.1 to 20.0	1.7 to 5.5	R1.2/R2.0	20 (Power Delivery communication is contracted only for the stated voltage.)*1	✓	6.5	For Sink: 1pair For Source: 1pair	—	-30 to +105	UQFN40V5050A
BM92A13MWV				15 (Power Delivery communication is contracted only for the stated voltage.)*1						UQFN40V5050A
BM92A14MWV				9 (Power Delivery communication is contracted only for the stated voltage.)*1						UQFN40V5050A
BM92A15MWV				5 to 20 (It requires the maximum voltage had by the source side between 5V to 20V.)*1						UQFN40V5050A
BM92A19MWV				5 (Power Delivery communication is contracted only for the stated voltage.)*1						UQFN40V5050A
BD93F10MWV	3.1 to 22.0		R1.3/R3.0	5V to 20V Selectable	Selectable	28			-30 to +85	UQFN040V5050
BD91N01NUX	4.0 to 5.5		R1.3/—	Type-C 5V	✓	28	For Sink: 1path			VSON010X3020

*1 由于已建立Type-C连接，因此，即使未建立POWER DELIVERY通信，也将从供电侧供应5V电源。
此时，外置Nch-FET用的控制不会自动启动，需要来自本IC外部的FET控制用指令。

电源管理			
线性稳压器	P.30	开关稳压器	P.45
开关稳压器(系统电源)	P.50	非绝缘型 AC/DC控制器IC	P.52
绝缘/非绝缘型 AC/DC转换器	P.53	绝缘型 AC/DC转换器IC	P.54
栅极驱动器	P.56	温度监测器	P.57
电源管理开关	P.57	无线供电	P.59
电池管理	P.60	电压检测器(复位IC)系列	P.61

线性稳压器			
标准稳压器(三引脚稳压器)	P.30	单通道输出 低饱和稳压器(LDO)	P.30
带看门狗计时的低饱和稳压器	P.43	带电压检测器的低饱和稳压器	P.43
电压跟踪器	P.43	多路输出 低饱和稳压器(LDO)	P.44
DDR SDRAM用线性稳压器	P.44		

单通道输出稳压器-产品表

Max. Rating Output Current Input Voltage	0.1A	0.15A	0.2A	0.3A	0.5A	0.7A	1.0A	1.5A	2.0A	3.0A	4.0A	External MOSFET
42 to 50V	BD42500G-C* ^{2/3} BD42540FJ-C* ^{2/3} ▶P.43		BD7xxL2* ² ▶P.30 BD4xxM2* ^{1/2} BD4xxM2W* ^{1/2} ▶P.31 BD4269FJ-C* ^{2/3} BD42530EFJ-C* ² BD42530FP2-C* ² BD42530FPJ-C* ² BD820F50EFJ-C* ² ▶P.43	BD4269EFJ-C* ^{2/3} ▶P.43	BD357xY BD7xxL5* ² BD4xxM5* ^{1/2} BD4xxM5W* ^{1/2} BD800M5* ² BD00EA5W ▶P.30 BD4271HFP-C* ^{2/3} BD4271FP2-C* ^{2/3} BD42754FPJ-C* ^{2/3} BD42754FP2-C* ^{2/3} ▶P.43	BD800M7WFP2-C* ² ▶P.30						
30 to 36V	BDxxFA1FP3 BD50FA1MG-M* ² BD00FA1WEFJ ▶P.33			BD3650FP-M* ² ▶P.31 BA3662CP-V5 ▶P.32	BA178Mxx* ¹ ▶P.30 BD3021HFP* ^{2/3} BD3020HFP* ^{2/3} BD3925FP-C* ² BD3925HFP-C* ² ▶P.43		BA178xx* ¹ BAxxCC0* ¹ BDxxC0AFPS* ⁴ BDxxFC0FP BDxxC0A* ^{1/2} BDxxC0AFPS-LB* ⁴ BDxxFC0W* ¹ BAxxCC0W* ¹ BD00C0AWFPS-M* ² BDxxC0AW* ^{1/2} ▶P.30, 31, 32		BAxxDD0T BAxxDD0W* ¹ BDxxFD0W ▶P.31			
18V							BAxxBC0* ¹ BAxxBC0W* ¹ BD37210AMUV BD37215AMUV ▶P.33, 42	BAxxJC5T BA00JC5WT ▶P.33				
15V				BDxxGA3* ^{1/2/4} ▶P.35	BDxxGA5* ^{2/4} ▶P.34, 35		BA1117FP BDxxGC0* ^{2/4} ▶P.30, 34					
10V				BDxxHA3* ^{2/4} ▶P.37	BDxxHA5* ^{2/4} ▶P.36, 37		BDxxHC0* ^{2/4} ▶P.36	BDxxHC5* ^{2/4} ▶P.36				
6 to 7V		BHxxNB1WHFV BHxxRB1WGUT BHxxPB1WHFV ▶P.42	BUxxTD2WNVX* ¹ BUxxTD3WG* ¹ BUxxTA2W* ¹ BUxxSD2MG-M* ² BUxxJA2MNVX-C* ² BUxxJA2VG-C* ² BUxxJA2DG-C* ² BUxxSA4GWL ▶P.40, 41	BHxxM0AWHFV ▶P.39	BDxxIA5* ^{2/4} BDxxKA5FP BDxxKA5W* ¹ BUxxSD5WG BUxxSA5WGWZ BD37201NUX ▶P.38, 39, 42		BDxxIC0* ^{1/2/4} ▶P.37, 38					
Ultra Low Voltage (Dual Supply)					BD3550HFN BD3507HFV BD3540NUV ▶P.42		BD3551HFN BD3541NUV ▶P.42		BD3506F BD3552HFN ▶P.42	BD3508MUV BD3512MUV ▶P.42	BD3509MUV ▶P.42	BD3504FVM BD3521FVM ▶P.42

*1 封装系列 *2 车载等级 *3 电压检测等复合稳压器 *4 备有工业设备级产品 *5 负电压型

线性稳压器

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

标准稳压器(三引脚稳压器)

35V耐压 1A输出 三引脚稳压器										
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Circuit Current (mA)	Thermal Shutdown Circuit	Area of Safety Operation Circuit	Over Current Protection Circuit	Package/Part No.	
			±4	1.0	4.5	✓	✓	✓	TO220CP-3	TO252-3
BA17805 (BA7805)	7.5 to 25.0	5							BA17805CP	BA17805FP
BA17806 (BA7806)	8.5 to 21.0	6							BA17806CP	BA17806FP
BA17807 (BA7807)	9.5 to 22.0	7							BA17807CP	BA17807FP
BA17808 (BA7808)	10.5 to 23.0	8							BA17808CP	BA17808FP
BA17809 (BA7809)	11.5 to 26.0	9							BA17809CP	BA17809FP
BA17810 (BA7810)	12.5 to 25.0	10							BA17810CP	BA17810FP
BA17812 (BA7812)	15.0 to 27.0	12							BA17812CP	BA17812FP
BA17815 (BA7815)	17.5 to 30.0	15							BA17815CP	BA17815FP
BA17818 (BA7818)	21.0 to 33.0	18							BA17818CP	BA17818FP
BA17820 (BA7820)	23.0 to 33.0	20							BA17820CP	BA17820FP
BA17824 (BA7824)	27.0 to 33.0	24							BA17824CP	BA17824FP
35V耐压 500mA输出 三引脚稳压器										
			±4	0.5	4.5	✓	✓	✓	BA178M05CP	BA178M05FP
BA178M05 (BA78M05)	7.5 to 25.0	5							BA178M06CP	BA178M06FP
BA178M06 (BA78M06)	8.5 to 21.0	6							BA178M07CP	BA178M07FP
BA178M07 (BA78M07)	9.5 to 22.0	7							BA178M08CP	BA178M08FP
BA178M08 (BA78M08)	10.5 to 23.0	8							BA178M09CP	BA178M09FP
BA178M09 (BA78M09)	11.5 to 26.0	9							BA178M10CP	BA178M10FP
BA178M10 (BA78M10)	12.5 to 25.0	10							BA178M12CP	BA178M12FP
BA178M12 (BA78M12)	15.0 to 27.0	12							BA178M15CP	BA178M15FP
BA178M15 (BA78M15)	17.5 to 30.0	15							BA178M18CP	BA178M18FP
BA178M18 (BA78M18)	21.0 to 33.0	18							BA178M20CP	BA178M20FP
BA178M20 (BA78M20)	23.0 to 33.0	20							BA178M24CP	BA178M24FP
BA178M24 (BA78M24)	27.0 to 33.0	24								
15V耐压 1A输出 LDO稳压器										
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Adjustment Pin Current (μA)	Reference Voltage (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
BA1117FP	10	Variable	±1	1.0	60	1.2 (I _o =1A)	75 (f=120Hz, V _i -V _o =3V, V _{ripple} =1V _{pp})	10	Over-Current/ Temperature	TO252-3

单通道输出 低饱和稳压器(LDO)

50V耐压 500mA LDO稳压器													
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage: I _O =200mA (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100	
BD3570YFP-M	4.5 to 36.0	3.3	±2 (T _a =-40 to +125°C)	0.5	—	30	-40 to +125	—	Over-Current/ Temperature	TO252-3	FSs	YES	
BD3570YHFP-M		3.3			—					HRP5	FSs	YES	
BD3571YFP-M	5.5 to 36.0	5.0			0.25					TO252-3	FSs	YES	
BD3571YHFP-M		5.0			0.25					HRP5	FSs	YES	
BD3572YFP-M	4.5 to 36.0	Variable 2.8 to 12.0			—					TO252-5	FSs	YES	
BD3572YHFP-M		3.3			—					HRP5	FSs	YES	
BD3573YFP-M	5.5 to 36.0	5.0			0.25					TO252-5	FSs	YES	
BD3573YHFP-M		3.3			—					HRP5	FSs	YES	
BD3574YFP-M	4.5 to 36.0	Variable 2.8 to 12.0			—					TO252-5	FSs	YES	
BD3574YHFP-M		5.0			0.25					HRP5	FSs	YES	
BD3575YFP-M	4.5 to 36.0	Variable 2.8 to 12.0			—					TO252-5	FSs	YES	
BD3575YHFP-M		5.0			0.25					HRP5	FSs	YES	

50V耐压 低静态电流 200mA LDO稳压器														
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage: I _O =200mA (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package/Part No.			ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD733L2	4.37 to 45.0	3.3	±2 (T _a =-40 to +125°C)	0.2	0.6	6	-40 to +125	—	Over-Current/ Temperature	HTSOP-J8	TO252-3	SOT223-4	FSs	YES
BD750L2	5.8 to 45.0	5.0	0.4	0.2	BD733L2EFJ-C					BD733L2FP2-C	BD733L2FP3-C	FSs	YES	
BD750L2	5.8 to 45.0	5.0	0.4	0.2	0.4	6	-40 to +125	—	Over-Current/ Temperature	BD750L2EFJ-C	BD750L2FP2-C	BD750L2FP3-C	FSs	YES

50V耐压 低静态电流 500mA LDO稳压器														
BD733L5	4.17 to 45.00	3.3	±2 (T _a =-40 to +125°C)	0.5	0.4	6	-40 to +125	—	Over-Current/ Temperature	—	BD733L5FP-C	—	FSs	YES
BD750L5	5.6 to 45.0	5.0	0.25	0.25	—					BD750L5FP-C	—	FSs	YES	

45V耐压 低静态电流 500mA LDO稳压器															
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package/Part No.				ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD433M5	4.0 to 42.0	3.3	±2 (T _j =-40 to +150°C)	0.5	0.25 (I _O =300mA)	38	T _j =-40 to +150	—	Over-Current/ Temperature	TO252-3	TO263-3	TO263-5	TO252-J5	FSs	YES
BD450M5	5.5 to 42.0	5.0			0.2 (I _O =300mA)					BD433M5FP-C	BD433M5FP2-C	—	—	FSs	YES
BD433M5W	4.0 to 42.0	3.3			0.25 (I _O =300mA)					—	—	BD433M5WFP2-C	BD433M5WFPJ-C	FSs	YES
BD450M5W	5.5 to 42.0	5.0			0.2 (I _O =300mA)					—	—	BD450M5WFP2-C	BD450M5WFPJ-C	FSs	YES
BD450M5W	5.5 to 42.0	5.0			0.2 (I _O =300mA)					—	—	BD450M5WFP2-C	BD450M5WFPJ-C	FSs	YES

45V耐压 低静态电流 500mA LDO稳压器 带关断开关																	
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package/Part No.				ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100		
BD800M5	3.0 to 42.0	Variable 1.2 to 16.0	±2.0	0.5	0.45 (I _O =500mA)	17	-40 to +150	—	Over-Current/ Temperature	TO252-5	TO252-J5	TO263-5	HRP5	FSs	YES		
BD00EA5W			—							BD800M5WFPJ-C	—	BD800M5WHFP-C	FSs				
BD00EA5W			±2.5 (T _j =25°C)							—	—	BD800M5WFP2-C	—	—	—	—	
BD00EA5W			±1 (T _j =25°C)							—	—	BD00EA5WFP	—	—	BD00EA5WHFP	—	—
BD00EA5W			±1.5 (T _j =25°C)							—	—	—	—	—	BD00EA5WFP2	—	—

45V耐压 低静态电流 700mA LDO稳压器 带关断开关													
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100	
BD800M7WFP2-C	3.0 to 42.0	Variable 1.2 to 16.0	±2.5	0.7	0.6 (I _O =700mA)	17	-40 to +150	✓	Over-Current/ Temperature	TO263-5	FSs	YES	

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*1 "ComfySIL™功能安全类别"的详情请参阅封二。

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

45V耐压 低静态电流 200mA LDO稳压器															
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package/Part No.					
										HTSOP-J8	ComfySIL™ Functional Safety*1	SOT223-4	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100	
BD433M2	3.9 to 42.0	3.3	±2 (T _j =−40 to +150°C)	0.2	0.2 (I _O =100mA)	40	T _j =−40 to +150	— ✓	Over-Current/ Temperature	BD433M2EFJ-C	FSs	BD433M2FP3-C	FSs	YES	
BD450M2	5.5 to 42.0	5.0			0.16 (I _O =100mA)					BD450M2EFJ-C	FSs	BD450M2FP3-C	FSs	YES	
BD433M2W	3.9 to 42.0	3.3			0.2 (I _O =100mA)					BD433M2WEFJ-C	FSs	BD433M2WFP3-C	FSs	YES	
BD450M2W	5.5 to 42.0	5.0			0.16 (I _O =100mA)					BD450M2WEFJ-C	FSs	BD450M2WFP3-C	FSs	YES	
36V耐压 300mA LDO稳压器															
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (mA)	Operating Temperature (°C)	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100				
BD3650FP-M	5.6 to 30.0	5.0	±2 (T _j =−40 to +125°C)	0.3	0.2 (I _O =200mA)	0.5	−40 to +125	Over-Current/ Temperature	TO252-3	FSs	YES				
35V耐压 2A LDO稳压器															
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package					
BA15DD0T	3 to 25	1.5	±1	2.0	0.9	0.45 (I _O =2A)	55	50 (I _O =0 to 2A)	Over-Voltage/ Over-Current/ Temperature	TO220FP-3					
BA18DD0T		1.8								TO220FP-3					
BA25DD0T		2.5								TO220FP-3					
BA30DD0T		3.0								TO220FP-3					
BA33DD0T		3.3								TO220FP-3					
BA50DD0T		5.0								TO220FP-3					
BA90DD0T		9.0								TO220FP-3					
BAJ2DD0T		12.0								TO220FP-3					
BAJ6DD0T		16.0								TO220FP-3					
35V耐压 2A LDO稳压器 带关断开关															
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package/Part No.					
BA00DD0W	3 to 25	Variable 1.5 to 16.0	±1	2.0	0.9	0.45 (I _O =2A)	55	50 (I _O =0 to 2A)	Over-Voltage/ Over-Current/ Temperature	TO220FP-5	HRP5				
BA15DD0W		1.5								BA00DD0WCP-V5 (TO220CP-V5)	BA00DD0WHFP				
BA18DD0W		1.8								BA15DD0WT	BA15DD0WHFP				
BA25DD0W		2.5								BA18DD0WT	BA18DD0WHFP				
BA30DD0W		3.0								—	BA25DD0WHFP				
BA33DD0W		3.3								BA30DD0WT	BA30DD0WHFP				
BA50DD0W		5.0								BA33DD0WT	BA33DD0WHFP				
BA90DD0W		9.0								BA50DD0WT	BA50DD0WHFP				
BAJ2DD0W		12.0								BA90DD0WT	BA90DD0WHFP				
BAJ6DD0W		16.0								BAJ2DD0WT	BAJ2DD0WHFP				
BAJ6DD0W		16.0								BAJ6DD0WT	BAJ6DD0WHFP				
35V耐压 2A LDO稳压器 带关断开关(低输出容量适用)															
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package/Part No.					
BD00FD0W	4 to 32	Variable 1.5 to 16.0	±1	2.0	0.5	0.4 (I _O =1A)	55	V _O *±0.7% (I _O =5mA to 1A)	Over-Current/ Temperature	BD00FD0WHFP	BD00FD0WFP2				
BD15FD0W		1.5	±1.5			—		V _O *±2.0% (I _O =5mA to 1A)		BD15FD0WHFP	BD15FD0WFP2				
BD18FD0W		1.8								BD18FD0WHFP	BD18FD0WFP2				
BD25FD0W		2.5								BD25FD0WHFP	BD25FD0WFP2				
BD30FD0W		3.0								BD30FD0WHFP	BD30FD0WFP2				
BD33FD0W		3.3	±1			0.4 (I _O =1A)	50	V _O *±0.7% (I _O =5mA to 1A)		BD33FD0WHFP	BD33FD0WFP2				
BD50FD0W	V _O +1 to 32	5.0								BD50FD0WHFP	BD50FD0WFP2				
BD80FD0W		8.0								BD80FD0WHFP	BD80FD0WFP2				
BD90FD0W		9.0								BD90FD0WHFP	BD90FD0WFP2				
BDJ2FD0W		12.0								BDJ2FD0WHFP	BDJ2FD0WFP2				
BDJ5FD0W		15.0								BDJ5FD0WHFP	BDJ5FD0WFP2				
BDJ6FD0W		16.0								BDJ6FD0WHFP	BDJ6FD0WFP2				
35V耐压 1A LDO稳压器															
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package/Part No.					
BA03CC0	4 to 25	3.0	±2	1.0	2.5	0.30 (I _O =0.5A)	55	50 (I _O =5mA to 1A)	Over-Voltage/ Over-Current/ Temperature	TO220FP-3	TO252-3				
BA033CC0		3.3								BA03CC0T	BA03CC0FP				
BA05CC0		5.0								BA033CC0T	BA033CC0FP				
BA06CC0		6.0								BA05CC0T	BA05CC0FP				
BA07CC0		7.0								—	BA06CC0FP				
BA08CC0		8.0								BA07CC0T	BA07CC0FP				
BA09CC0		9.0								BA08CC0T	BA08CC0FP				
BAJ0CC0		10.0								BA09CC0T	BA09CC0FP				
BAJ2CC0		12.0								BAJ0CC0T	BAJ0CC0FP				
BAJ5CC0		15.0								BAJ2CC0T	BAJ2CC0FP				
BAJ5CC0		15.0								BAJ5CC0T	BAJ5CC0FP				
35V耐压 1A LDO稳压器(低输出容量适用)															
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package					
BD80C0AFPS	9.0 to 26.5	8.0	±1	1.0	0.6	0.30 (I _O =0.5A)	50	V _O *±0.01 (I _O =5mA to 1A)	Over-Current/ Temperature	TO252S-3					
BD90C0AFPS	10.0 to 26.5	9.0								TO252S-3					
BD33FC0FP	4.3 to 26.5	3.3	±1	1.0	0.6	— 0.30 (I _O =0.5A)	55	V _O *±0.01 (I _O =5mA to 1A)	Over-Current/ Temperature	TO252-3					
BD50FC0FP	6.0 to 26.5	5.0								TO252-3					

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

*2 V_O是输出电压, 单位: V

单通道输出 低饱和稳压器(LDO)

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

车载用35V耐压 1A LDO稳压器(低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package/Part No.				ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
										TO252-3	HRP5	TO263-3	TO252S-3		
BD33C0A	4.3 to 26.5	3.3	± 3 ($T_a = -40$ to $+125^\circ\text{C}$)	1.0	0.5	—	55	$V_o^{*2} \times 0.01$ ($I_o = 5\text{mA}$ to 1A)	Over-Current/ Temperature	BD33C0AFP-C	BD33C0AHP-C	BD33C0AFP2-C	—	FSs	YES
BD50C0A	6.0 to 26.5	5.0								BD50C0AFP-C	BD50C0AHP-C	BD50C0AFP2-C	—	FSs	YES
BD80C0A	9.0 to 26.5	8.0								BD80C0AFP-C	BD80C0AHP-C	BD80C0AFP2-C	BD80C0AFPS-C	FSs	YES
BD90C0A	10.0 to 26.5	9.0								BD90C0AFP-C	BD90C0AHP-C	BD90C0AFP2-C	—	FSs	YES

35V耐压 1A LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package
BD80C0AFPS-LB	9.0 to 26.5	8.0	± 1	1.0	0.6	0.30 ($I_o = 0.5\text{A}$)	50	$V_o^{*2} \times 0.01$ ($I_o = 5\text{mA}$ to 1A)	Over-Current/ Temperature	TO252S-3
BD90C0AFPS-LB	10.0 to 26.5	9.0								TO252S-3

35V耐压 1A LDO稳压器 带关断开关(低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Regulation (dB)	Load Regulation (V)	Protection Circuit	Package/Part No.	
										TO252-5	HTSOP-J8
BD00FC0W	4.0 to 26.5	Variable 1.0 to 15.0	±1	1.0	0.5	0.3 (I _o =500mA)	55	V _o *2×0.01 (I _o =5mA to 1A)	Over-Current/ Temperature	BD00FC0WFP	BD00FC0WEFJ
BD30FC0W		3.0				BD30FC0WFP				BD30FC0WEFJ	
BD33FC0W		4.3 to 26.5				3.3				BD33FC0WFP	BD33FC0WEFJ
BD50FC0W	6.0 to 26.5	5.0				0.3 (I _o =500mA)	50			BD50FC0WFP	BD50FC0WEFJ
BD60FC0W	7.0 to 26.5	6.0								BD60FC0WFP	BD60FC0WEFJ
BD70FC0W	8.0 to 26.5	7.0								BD70FC0WFP	BD70FC0WEFJ
BD80FC0W	9.0 to 26.5	8.0								BD80FC0WFP	BD80FC0WEFJ
BD90FC0W	10.0 to 26.5	9.0								BD90FC0WFP	BD90FC0WEFJ
BDJ0FC0W	11.0 to 26.5	10.0								BDJ0FC0WFP	BDJ0FC0WEFJ
BDJ2FC0W	13.0 to 26.5	12.0								BDJ2FC0WFP	BDJ2FC0WEFJ
BDJ5FC0W	16.0 to 26.5	15.0								BDJ5FC0WFP	BDJ5FC0WEFJ

35V耐压 1A LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package/Part No.	
										TO220FP-5	TO252-5
BA00CC0W	4 to 25	Variable 3.0 to 15.0	± 2	1.0	2.5	0.3 ($I_o = 0.5\text{A}$)	55	50 ($I_o = 5\text{mA}$ to 1A)	Over-Voltage/ Over-Current/ Temperature	BA00CC0WT/ BA00CC0WCP-V5 (TO220CP-V5)	BA00CC0WFP
BA03CC0W		3.0								BA03CC0WT	—
BA033CC0W		3.3								BA033CC0WT	BA033CC0WFP
BA05CC0W		5.0								BA05CC0WT	BA05CC0WFP
BA06CC0W		6.0								—	BA06CC0WFP
BA07CC0W		7.0								BA07CC0WT	BA07CC0WFP
BA08CC0W		8.0								BA08CC0WT	BA08CC0WFP
BA09CC0W		9.0								BA09CC0WT	BA09CC0WFP
BAJ0CC0W		10.0								BAJ0CC0WT	—
BAJ2CC0W		12.0								BAJ2CC0WT	BAJ2CC0WFP

35V耐压 1A LDO稳压器 带关断开关(大范围温度且低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package/Part No.	
										TO252-5	TO220CP-V5
BD00C0AW	4.0 to 26.5	Variable 3.0 to 15.0	± 1	1.0	0.5	0.3 ($I_o = 500\text{mA}$)	55	$V_o^{*2} \times 0.01$ ($I_o = 5\text{mA}$ to 1A)	Over-Current/ Temperature	BD00C0AWFP	BD00C0AWCP-V5
BD33C0AW	4.3 to 26.5	3.3				—				BD33C0AWFP	—
BD50C0AW	6.0 to 26.5	5.0				0.3 ($I_o = 500\text{mA}$)				BD50C0AWFP	—

车载用35V耐压 1A LDO稳压器 带关断开关(薄型封装适用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage (V)	Circuit Current (mA)	Operating Temperature ($^\circ\text{C}$)	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00C0AWFPS-M	4.0 to 26.5	Variable 3.0 to 15.0	± 3 ($T_a = -40$ to $+105^\circ\text{C}$)	1.0	0.3 ($I_o = 500\text{mA}$)	0.5	-40 to +105	Over-Current/ Temperature	TO252S-5	FSs	YES

车载用35V耐压 1A LDO稳压器 带关断开关(低输出容量适用)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (V)	Protection Circuit	Package/Part No.			ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100		
										TO252-5	HRP5	TO263-5				
BD00C0AW	4.0 to 26.5	Variable 1.0 to 15.0	±3 (T _s = -40 to +125°C)	1.0	0.5	0.3 (I _o = 500mA)	55	V _o *2 × 0.01 (I _o = 5mA to 1A)	Over-Current/ Temperature	BD00C0AWFP-C	BD00C0AWHPF-C	BD00C0AWFP2-C	FSs	YES		
BD33C0AW	4.3 to 26.5	3.3				—				BD33C0AWFP-C	BD33C0AWHPF-C	BD33C0AWFP2-C	FSs	YES		
BD50C0AW	6.0 to 26.5	5.0				0.3 (I _o = 500mA)				BD50C0AWFP-C	BD50C0AWHPF-C	BD50C0AWFP2-C	FSs	YES		
BD80C0AW	9.0 to 26.5	8.0								BD80C0AWFP-C	BD80C0AWHPF-C	BD80C0AWFP2-C	FSs	YES		
BD90C0AW	10.0 to 26.5	9.0								BD90C0AWFP-C	BD90C0AWHPF-C	BD90C0AWFP2-C	FSs	YES		

35V耐压 300mA LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation	Protection Circuit	Package
BA3662CP-V5	4 to 25	Variable 3.0 to 15.0	± 2	0.3	2.5	0.3 ($I_o = 0.2\text{A}$)	55	40mV ($I_o = 5\text{mA}$ to 200mA)	Over-Voltage/ Over-Current/ Temperature	TO220CP-V5

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

*2 V_o 是输出电压, 单位: V

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

小型 30V耐压 100mA LDO稳压器														
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Load Regulation (%)	Protection Circuit	Input Capacitor (μF)	Output Capacitor (μF)	Package			
BD33FA1FP3	Vo+3 to 25	3.3	±1	0.1	0.3	1 (Io=100mA)	±1.5	Over-Current/ Temperature	1.0	1.0	SOT89-3K			
BD50FA1FP3		5.0									SOT89-3K			
BD54FA1FP3		5.4									SOT89-3K			
BDJ2FA1FP3		12.0			0.4						SOT89-3K			
车载用 30V耐压 100mA LDO稳压器 带关断开关														
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Load Regulation (%)	Protection Circuit	Input Capacitor (μF)	Output Capacitor (μF)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100	
BD50FA1MG-M	Vo+3 to 25	5	±1	0.1	0.5	2 (Io=100mA)	±1.5	Over-Current/ Temperature	1.0	1.0	SSOP5	FSs	YES	
30V耐压 100mA 输出可变LDO稳压器 带关断开关														
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Load Regulation (%)	Protection Circuit	Input Capacitor (μF)	Output Capacitor (μF)	Package			
BD00FA1WEFJ	Vo+3 to 25	Variable 3.0 to 12.0	±1	0.1	0.3	2 (Io=100mA)	±1.5	Over-Current/ Temperature	2.2	2.2	HTSOP-J8			
18V耐压 1.5A LDO稳压器														
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Protection Circuit	Package		
BA15JC5T	3 to 16	1.5	±1	1.5	0.5	0.3 (Io=500mA)	55	5 (Io=5mA to 1.5A)	0.33	22.0	Over-Current/ Temperature	TO220FP-3		
BA18JC5T		1.8										TO220FP-3		
BA25JC5T		2.5										TO220FP-3		
BA30JC5T		3.0										TO220FP-3		
BA33JC5T		3.3										TO220FP-3		
BA50JC5T		5.0										TO220FP-3		
BA60JC5T		6.0										TO220FP-3		
BA80JC5T		8.0										TO220FP-3		
BA90JC5T		9.0										TO220FP-3		
18V耐压 1.5A LDO稳压器 带关断开关														
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	
BA00JC5WT	3 to 16	Variable 1.5 to 12.0	±1	1.5	0.5	0.3 (Io=500mA)	55	5 (Io=5mA to 1.5A)	0.33	22.0	✓	Over-Current/ Temperature	TO220FP-5	
18V耐压 1A LDO稳压器														
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Protection Circuit	Package/Part No.		
BA15BC0	3 to 16	1.5	±2	1.0	0.5	0.3 (Io=200mA)	55	35 (Io=0 to 1A)	0.33	22.0	Over-Current/ Temperature	BA15BC0FP	BA15BC0T	
BA18BC0		1.8										BA18BC0FP	BA18BC0T	
BA25BC0		2.5										BA25BC0FP	BA25BC0T	
BA30BC0		3.0										BA30BC0FP	BA30BC0T	
BA33BC0		3.3										BA33BC0FP	BA33BC0T	
BA50BC0		5.0										BA50BC0FP	BA50BC0T	
BA60BC0		6.0			BA60BC0FP							BA60BC0T		
BA70BC0		7.0			0.6							BA70BC0FP	BA70BC0T	
BA80BC0		8.0										BA80BC0FP	BA80BC0T	
BA90BC0		9.0										BA90BC0FP	BA90BC0T	
BAJ0BC0		10.0										BAJ0BC0FP	BAJ0BC0T	
18V耐压 1A LDO稳压器 带关断开关														
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)		Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.
BA00BC0W	3 to 16	Variable 1.5 to 12.0	±2	1.0	0.5 (Vo≤6.0)	0.3 (Io=200mA)	55	35 (Io=0 to 1A)	0.33	22.0	✓	Over-Current/ Temperature	BA00BC0WFP/ BA00BC0WCP-V5 (TO220CP-V5)	BA00BC0WT
BA15BC0W		1.5			BA15BC0WFP								BA15BC0WT	
BA18BC0W		1.8			BA18BC0WFP								BA18BC0WT	
BA25BC0W		2.5			BA25BC0WFP								BA25BC0WT	
BA30BC0W		3.0			BA30BC0WFP								BA30BC0WT	
BA33BC0W		3.3			BA33BC0WFP								BA33BC0WT	
BA50BC0W		5.0			BA50BC0WFP								BA50BC0WT	
BA60BC0W		6.0			BA60BC0WFP								BA60BC0WT	
BA70BC0W		7.0			BA70BC0WFP								BA70BC0WT	
BA80BC0W		8.0			BA80BC0WFP								BA80BC0WT	
BA90BC0W		9.0			BA90BC0WFP								BA90BC0WT	
BAJ0BC0W		10.0			BAJ0BC0WFP								BAJ0BC0WT	

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

单通道输出 低饱和稳压器(LDO)

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

15V耐压 1A LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00GC0WEFJ/BD00GC0MEFJ-M	4.5 to 14.0	Variable 1.5 to 13.0	± 1 ($T_a = +25^\circ\text{C}$)/ ± 3 ($T_a = -40$ to $+105^\circ\text{C}$) <Automotive Grade>	1.0	0.6	0.6 ($I_o = 1\text{A}$)	60 ($f = 100\text{Hz}$, 50mV_{PP} , $I_o = 0\text{A}$)	25 ($I_o = 0$ to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15GC0WEFJ/BD15GC0MEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18GC0WEFJ/BD18GC0MEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25GC0WEFJ/BD25GC0MEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30GC0WEFJ/BD30GC0MEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33GC0WEFJ/BD33GC0MEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50GC0WEFJ/BD50GC0MEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60GC0WEFJ/BD60GC0MEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70GC0WEFJ/BD70GC0MEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES
BD80GC0WEFJ/BD80GC0MEFJ-M		8.0											HTSOP-J8	—/FSs	—/YES
BD90GC0WEFJ/BD90GC0MEFJ-M		9.0											HTSOP-J8	—/FSs	—/YES
BDJ0GC0WEFJ/BDJ0GC0MEFJ-M		10.0											HTSOP-J8	—/FSs	—/YES
BDJ2GC0WEFJ/BDJ2GC0MEFJ-M		12.0											HTSOP-J8	—/FSs	—/YES

15V耐压 1A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00GC0MEFJ-LB	4.5 to 14.0	Variable 1.5 to 13.0	$\pm 1/\pm 3$ ($T_a = -40$ to $+105^\circ\text{C}$)	1.0	0.6	0.6 ($I_o = 1\text{A}$)	60 ($f = 100\text{Hz}$, 50mV_{PP} , $I_o = 0\text{A}$)	25 ($I_o = 0$ to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15GC0MEFJ-LB		1.5											HTSOP-J8
BD18GC0MEFJ-LB		1.8											HTSOP-J8
BD25GC0MEFJ-LB		2.5											HTSOP-J8
BD30GC0MEFJ-LB		3.0											HTSOP-J8
BD33GC0MEFJ-LB		3.3											HTSOP-J8
BD50GC0MEFJ-LB		5.0											HTSOP-J8
BD60GC0MEFJ-LB		6.0											HTSOP-J8
BD70GC0MEFJ-LB		7.0											HTSOP-J8
BD80GC0MEFJ-LB		8.0											HTSOP-J8
BD90GC0MEFJ-LB		9.0											HTSOP-J8
BDJ0GC0MEFJ-LB		10.0											HTSOP-J8
BDJ2GC0MEFJ-LB		12.0											HTSOP-J8

15V耐压 500mA LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output voltage precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00GA5WEFJ/BD00GA5MEFJ-M	4.5 to 14.0	Variable 1.5 to 13.0	± 1 ($T_a = 25^\circ\text{C}$)/ ± 3 ($T_a = -40$ to $+105^\circ\text{C}$) <Automotive Grade>	0.5	0.6	0.6 ($I_o = 500\text{mA}$)	60 ($f = 100\text{Hz}$, 50mV_{PP} , $I_o = 0\text{A}$)	25 ($I_o = 0$ to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15GA5WEFJ/BD15GA5MEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18GA5WEFJ/BD18GA5MEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25GA5WEFJ/BD25GA5MEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30GA5WEFJ/BD30GA5MEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33GA5WEFJ/BD33GA5MEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50GA5WEFJ/BD50GA5MEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60GA5WEFJ/BD60GA5MEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70GA5WEFJ/BD70GA5MEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES
BD80GA5WEFJ/BD80GA5MEFJ-M		8.0											HTSOP-J8	—/FSs	—/YES
BD90GA5WEFJ/BD90GA5MEFJ-M		9.0											HTSOP-J8	—/FSs	—/YES
BDJ0GA5WEFJ/BDJ0GA5MEFJ-M		10.0											HTSOP-J8	—/FSs	—/YES
BDJ2GA5WEFJ/BDJ2GA5MEFJ-M		12.0											HTSOP-J8	—/FSs	—/YES

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

15V耐压 500mA 可变输出/固定输出 LDO稳压器(工业设备用)															
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package		
BD00GA5MEFJ-LB	4.5 to 14.0	Variable 1.5 to 13.0	±1/±3 (T _a =−40 to +105°C)	0.5	0.6	0.6 (I _o =500mA)	60 (f=100Hz, 50mV _{PP} , I _o =0A)	25 (I _o =0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8		
BD15GA5MEFJ-LB		1.5											HTSOP-J8		
BD18GA5MEFJ-LB		1.8											HTSOP-J8		
BD25GA5MEFJ-LB		2.5											HTSOP-J8		
BD30GA5MEFJ-LB		3.0											HTSOP-J8		
BD33GA5MEFJ-LB		3.3											HTSOP-J8		
BD50GA5MEFJ-LB		5.0											HTSOP-J8		
BD60GA5MEFJ-LB		6.0											HTSOP-J8		
BD70GA5MEFJ-LB		7.0											HTSOP-J8		
BD80GA5MEFJ-LB		8.0											HTSOP-J8		
BD90GA5MEFJ-LB		9.0											HTSOP-J8		
BDJ0GA5MEFJ-LB		10.0											HTSOP-J8		
BDJ2GA5MEFJ-LB		12.0											HTSOP-J8		
15V耐压 300mA LDO稳压器 带关断开关															
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.		
													HTSOP-J8	VSON008X2030	
BD00GA3W	4.5 to 14.0	Variable 1.5 to 13.0	±1	0.3	0.6	0.6 (I _o =300mA)	60 (f=100Hz, 50mV _{PP} , I _o =0A)	25 (I _o =0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	BD00GA3WEFJ	BD00GA3WNUX	
BD15GA3W		1.5											BD15GA3WEFJ	☆BD15GA3WNUX	
BD18GA3W		1.8											BD18GA3WEFJ	☆BD18GA3WNUX	
BD25GA3W		2.5											BD25GA3WEFJ	☆BD25GA3WNUX	
BD30GA3W		3.0											BD30GA3WEFJ	BD30GA3WNUX	
BD33GA3W		3.3											BD33GA3WEFJ	☆BD33GA3WNUX	
BD50GA3W		5.0											BD50GA3WEFJ	BD50GA3WNUX	
BD60GA3W		6.0											BD60GA3WEFJ	BD60GA3WNUX	
BD70GA3W		7.0											BD70GA3WEFJ	☆BD70GA3WNUX	
BD80GA3W		8.0											BD80GA3WEFJ	☆BD80GA3WNUX	
BD90GA3W		9.0											BD90GA3WEFJ	☆BD90GA3WNUX	
BDJ0GA3W		10.0											BDJ0GA3WEFJ	☆BDJ0GA3WNUX	
BDJ2GA3W		12.0											BDJ2GA3WEFJ	☆BDJ2GA3WNUX	
15V耐压 300mA LDO稳压器 带关断开关															
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00GA3MEFJ-M	4.5 to 14.0	Variable 1.5 to 13.0	±3 (T _a =−40 to +105°C) <Automotive Grade>	0.3	0.6	0.6 (I _o =300mA)	60 (f=100Hz, 50mV _{PP} , I _o =0A)	25 (I _o =0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	FSs	YES
BD15GA3MEFJ-M		1.5											HTSOP-J8	FSs	YES
BD18GA3MEFJ-M		1.8											HTSOP-J8	FSs	YES
BD25GA3MEFJ-M		2.5											HTSOP-J8	FSs	YES
BD30GA3MEFJ-M		3.0											HTSOP-J8	FSs	YES
BD33GA3MEFJ-M		3.3											HTSOP-J8	FSs	YES
BD50GA3MEFJ-M		5.0											HTSOP-J8	FSs	YES
BD60GA3MEFJ-M		6.0											HTSOP-J8	FSs	YES
BD70GA3MEFJ-M		7.0											HTSOP-J8	FSs	YES
BD80GA3MEFJ-M		8.0											HTSOP-J8	FSs	YES
BD90GA3MEFJ-M		9.0											HTSOP-J8	FSs	YES
BDJ0GA3MEFJ-M		10.0											HTSOP-J8	FSs	YES
BDJ2GA3MEFJ-M		12.0											HTSOP-J8	FSs	YES
15V耐压 300mA 可变输出/固定输出 LDO稳压器(工业设备用)															
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package		
BD00GA3MEFJ-LB	4.5 to 14.0	Variable 1.5 to 13.0	±3 (T _a =−40 to +105°C)	0.3	0.6	0.6 (I _o =300mA)	60 (f=100Hz, 50mV _{PP} , I _o =0A)	25 (I _o =0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8		
BD15GA3MEFJ-LB		1.5											HTSOP-J8		
BD18GA3MEFJ-LB		1.8											HTSOP-J8		
BD25GA3MEFJ-LB		2.5											HTSOP-J8		
BD30GA3MEFJ-LB		3.0											HTSOP-J8		
BD33GA3MEFJ-LB		3.3											HTSOP-J8		
BD50GA3MEFJ-LB		5.0											HTSOP-J8		
BD60GA3MEFJ-LB		6.0											HTSOP-J8		
BD70GA3MEFJ-LB		7.0											HTSOP-J8		
BD80GA3MEFJ-LB		8.0											HTSOP-J8		
BD90GA3MEFJ-LB		9.0											HTSOP-J8		
BDJ0GA3MEFJ-LB		10.0											HTSOP-J8		
BDJ2GA3MEFJ-LB		12.0											HTSOP-J8		

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单通道输出 低饱和稳压器(LDO)

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

10V耐压 1.5A LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Consumer/Automotive Grade															
BD00HC5WEFJ/BD00HC5MEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T _a =25°C)/ ±3 (T _a =-40 to +105°C) <Automotive Grade>	1.5	0.6	0.6 (I _O =1.5A)	60 (f=100Hz, 50mV _{PP} , I _O =0A)	25 (I _O =0 to 1.5A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	-/FSs	-/YES
BD15HC5WEFJ/BD15HC5MEFJ-M		1.5											HTSOP-J8	-/FSs	-/YES
BD18HC5WEFJ/BD18HC5MEFJ-M		1.8											HTSOP-J8	-/FSs	-/YES
BD25HC5WEFJ/BD25HC5MEFJ-M		2.5											HTSOP-J8	-/FSs	-/YES
BD30HC5WEFJ/BD30HC5MEFJ-M		3.0											HTSOP-J8	-/FSs	-/YES
BD33HC5WEFJ/BD33HC5MEFJ-M		3.3											HTSOP-J8	-/FSs	-/YES
BD50HC5WEFJ/BD50HC5MEFJ-M		5.0											HTSOP-J8	-/FSs	-/YES
BD60HC5WEFJ/BD60HC5MEFJ-M		6.0											HTSOP-J8	-/FSs	-/YES
BD70HC5WEFJ/BD70HC5MEFJ-M		7.0											HTSOP-J8	-/FSs	-/YES

10V耐压 1.5A 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	Automotive Grade AEC-Q100
Industrial Equipment/Automotive Grade														
BD00HC5MEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1/±3 (T _a =-40 to +105°C)	1.5	0.6	0.6 (I _O =1.5A)	60 (f=100Hz, 50mV _{PP} , I _O =0A)	25 (I _O =0 to 1.5A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—
BD15HC5MEFJ-LB		1.5											HTSOP-J8	—
BD18HC5MEFJ-LB		1.8											HTSOP-J8	—
BD25HC5MEFJ-LB		2.5											HTSOP-J8	—
BD30HC5MEFJ-LB		3.0											HTSOP-J8	—
BD33HC5MEFJ-LB		3.3											HTSOP-J8	—
BD50HC5MEFJ-LB/ BD50HC5MEFJ-C		5.0											HTSOP-J8	-/YES
BD60HC5MEFJ-LB		6.0											HTSOP-J8	—
BD70HC5MEFJ-LB		7.0											HTSOP-J8	—

10V耐压 1A LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Consumer/Automotive Grade															
BD00HC0WEFJ/BD00HC0MEFJ-M	4.5 to 8.0	Variable 0.8 to 7.0 (Automotive Grade Variable 1.5 to 7.0)	±1 (T _a =+25°C)/ ±3 (T _a =-40 to +105°C) <Automotive Grade>	1.0	0.6	0.6 (I _O =1A)	60 (f=100Hz, 50mV _{PP} , I _O =0A)	25 (I _O =0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	-/FSs	-/YES
BD15HC0WEFJ/BD15HC0MEFJ-M		1.5											HTSOP-J8	-/FSs	-/YES
BD18HC0WEFJ/BD18HC0MEFJ-M		1.8											HTSOP-J8	-/FSs	-/YES
BD25HC0WEFJ/BD25HC0MEFJ-M		2.5											HTSOP-J8	-/FSs	-/YES
BD30HC0WEFJ/BD30HC0MEFJ-M		3.0											HTSOP-J8	-/FSs	-/YES
BD33HC0WEFJ/BD33HC0MEFJ-M		3.3											HTSOP-J8	-/FSs	-/YES
BD50HC0WEFJ/BD50HC0MEFJ-M		5.0											HTSOP-J8	-/FSs	-/YES
BD60HC0WEFJ/BD60HC0MEFJ-M		6.0											HTSOP-J8	-/FSs	-/YES
BD70HC0WEFJ/BD70HC0MEFJ-M		7.0											HTSOP-J8	-/FSs	-/YES

10V耐压 1A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00HC0MEFJ-LB	4.5 to 8.0	Variable 0.8 to 7.0 (Variable 1.5 to 7.0)	±1/±3 (T _a =-40 to +105°C)	1.0	0.6	0.6 (I _O =1A)	60 (f=100Hz, 50mV _{PP} , I _O =0A)	25 (I _O =0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15HC0MEFJ-LB		1.5											HTSOP-J8
BD18HC0MEFJ-LB		1.8											HTSOP-J8
BD25HC0MEFJ-LB		2.5											HTSOP-J8
BD30HC0MEFJ-LB		3.0											HTSOP-J8
BD33HC0MEFJ-LB		3.3											HTSOP-J8
BD50HC0MEFJ-LB		5.0											HTSOP-J8
BD60HC0MEFJ-LB		6.0											HTSOP-J8
BD70HC0MEFJ-LB		7.0											HTSOP-J8

10V耐压 500mA LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Consumer/Automotive Grade															
BD00HA5WEFJ/BD00HA5MEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T _a =+25°C)/ ±3 (T _a =-40 to +105°C) <Automotive Grade>	0.5	0.6	0.6 (I _O =500mA)	60 (f=100Hz, 50mV _{PP} , I _O =0A)	25 (I _O =0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	-/FSs	-/YES
BD15HA5WEFJ/BD15HA5MEFJ-M		1.5											HTSOP-J8	-/FSs	-/YES
BD18HA5WEFJ/BD18HA5MEFJ-M		1.8											HTSOP-J8	-/FSs	-/YES
BD25HA5WEFJ/BD25HA5MEFJ-M		2.5											HTSOP-J8	-/FSs	-/YES
BD30HA5WEFJ/BD30HA5MEFJ-M		3.0											HTSOP-J8	-/FSs	-/YES
BD33HA5WEFJ/BD33HA5MEFJ-M		3.3											HTSOP-J8	-/FSs	-/YES
BD50HA5WEFJ/BD50HA5MEFJ-M		5.0											HTSOP-J8	-/FSs	-/YES
BD60HA5WEFJ/BD60HA5MEFJ-M		6.0											HTSOP-J8	-/FSs	-/YES
BD70HA5WEFJ/BD70HA5MEFJ-M		7.0											HTSOP-J8	-/FSs	-/YES

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*1 "ComfySIL™功能安全类别"的详情请参阅封二。

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

10V耐压 500mA 可变输出/固定输出 LDO稳压器(工业设备用)													
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00HA5MEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1/±3 (T _a =-40 to +105°C)	0.5	0.6	0.6 (I _o =500mA)	60 (f=100Hz, 50mV _{pp} , I _o =0A)	25 (I _o =0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15HA5MEFJ-LB		1.5											HTSOP-J8
BD18HA5MEFJ-LB		1.8											HTSOP-J8
BD25HA5MEFJ-LB		2.5											HTSOP-J8
BD30HA5MEFJ-LB		3.0											HTSOP-J8
BD33HA5MEFJ-LB		3.3											HTSOP-J8
BD50HA5MEFJ-LB		5.0											HTSOP-J8
BD60HA5MEFJ-LB		6.0											HTSOP-J8
BD70HA5MEFJ-LB		7.0											HTSOP-J8

10V耐压 300mA LDO稳压器 带关断开关													
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package
Consumer/Automotive Grade													
BD00HA3WEFJ/BD00HA3MEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T _a =+25°C) / ±3 (T _a =-40 to +105°C) <Automotive Grade>	0.3	0.6	0.6 (I _o =300mA)	60 (f=100Hz, 50mV _{pp} , I _o =0A)	25 (I _o =0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15HA3WEFJ/BD15HA3MEFJ-M		1.5											HTSOP-J8
BD18HA3WEFJ/BD18HA3MEFJ-M		1.8											HTSOP-J8
BD25HA3WEFJ/BD25HA3MEFJ-M		2.5											HTSOP-J8
BD30HA3WEFJ/BD30HA3MEFJ-M		3.0											HTSOP-J8
BD33HA3WEFJ/BD33HA3MEFJ-M		3.3											HTSOP-J8
BD50HA3WEFJ/BD50HA3MEFJ-M		5.0											HTSOP-J8
BD60HA3WEFJ/BD60HA3MEFJ-M		6.0											HTSOP-J8
BD70HA3WEFJ/BD70HA3MEFJ-M		7.0											HTSOP-J8

10V耐压 300mA 可变输出/固定输出 LDO稳压器(工业设备用)													
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package
BD00HA3MEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1/±3 (T _a =-40 to +105°C)	0.3	0.6	0.6 (I _o =300mA)	60 (f=100Hz, 50mV _{pp} , I _o =0A)	25 (I _o =0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD15HA3MEFJ-LB		1.5											HTSOP-J8
BD18HA3MEFJ-LB		1.8											HTSOP-J8
BD25HA3MEFJ-LB		2.5											HTSOP-J8
BD30HA3MEFJ-LB		3.0											HTSOP-J8
BD33HA3MEFJ-LB		3.3											HTSOP-J8
BD50HA3MEFJ-LB		5.0											HTSOP-J8
BD60HA3MEFJ-LB		6.0											HTSOP-J8
BD70HA3MEFJ-LB		7.0											HTSOP-J8

7V耐压 1A LDO稳压器 带关断开关													
Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.
BD00IC0W	2.4 to 5.5	Variable 0.8 to 4.5	±1	1.0	0.3	0.4 (I _o =1A)	60 (f=100Hz, 50mV _{pp} , I _o =0A)	25 (I _o =0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	BD00IC0WEFJ
		1.0											BD10IC0WEFJ
		1.2											BD12IC0WEFJ
		1.25											BD1CIC0WEFJ
		1.5											BD15IC0WEFJ
		1.8											BD18IC0WEFJ
		2.5											BD25IC0WEFJ
		2.6											BD26IC0WEFJ
		3.0											BD30IC0WEFJ
		3.3											BD33IC0WEFJ

车载用 7V耐压 1A LDO稳压器 带关断开关													
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00IC0MEFJ-M	2.4 to 5.5	Variable 0.8 to 4.5	±3 (T _a =-40 to +105°C)	1.0	0.3	0.4 (I _o =1A)	60 (f=100Hz, 50mV _{pp} , I _o =0A)	25 (I _o =0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD10IC0MEFJ-M		1.0											HTSOP-J8
BD12IC0MEFJ-M		1.2											HTSOP-J8
BD15IC0MEFJ-M		1.5											HTSOP-J8
BD18IC0MEFJ-M		1.8											HTSOP-J8
BD25IC0MEFJ-M		2.5											HTSOP-J8
BD30IC0MEFJ-M		3.0											HTSOP-J8
BD33IC0MEFJ-M		3.3											HTSOP-J8

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单通道输出 低饱和稳压器(LDO)

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

7V耐压 1A 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00IC0MEFJ-LB	2.3 to 5.5	Variable 0.8 to 4.5	±3 (T _a =-40 to +105°C)	1.0	0.3	0.4 (I _O =1A)	60 (f=100Hz, 50mV _{rpp} , I _O =0A)	25 (I _O =0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—	—
BD10IC0MEFJ-LB	2.4 to 5.5	1.0											HTSOP-J8	—	—
BD12IC0MEFJ-LB		1.2											HTSOP-J8	—	—
BD15IC0MEFJ-LB		1.5											HTSOP-J8	—	—
BD18IC0MEFJ-LB		1.8											HTSOP-J8	—	—
BD25IC0MEFJ-LB		2.5											HTSOP-J8	—	—
BD30IC0MEFJ-LB		3.0											HTSOP-J8	—	—
BD33IC0MEFJ-LB/BD33IC0MEFJ-C		3.3											HTSOP-J8	—/FSs	—/YES

7V耐压 500mA LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Protection Circuit	Package
BD10KA5FP	2.3 to 5.5	1.0	±1	0.5	0.35	0.12 (I _O =200mA)	50	25 (I _O =0 to 500mA)	1.0	1.0	Over-Current/ Temperature	TO252-3
BD12KA5FP		1.2										TO252-3
BD15KA5FP		1.5										TO252-3
BD18KA5FP		1.8										TO252-3
BD25KA5FP		2.5										TO252-3
BD30KA5FP		3.0										TO252-3
BD33KA5FP		3.3										TO252-3

7V耐压 500mA LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.	
													TO252-5	SOP8
BD00KA5W	2.3 to 5.5	Variable 1.0 to 4.0	±1	0.5	0.35	0.12 (I _O =200mA)	50	25 (0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	BD00KA5WFP	BD00KA5WF
BD10KA5W		1.0											BD10KA5WFP	BD10KA5WF
BD12KA5W		1.2											BD12KA5WFP	BD12KA5WF
BD15KA5W		1.5											BD15KA5WFP	BD15KA5WF
BD18KA5W		1.8											BD18KA5WFP	BD18KA5WF
BD25KA5W		2.5											BD25KA5WFP	BD25KA5WF
BD30KA5W		3.0											BD30KA5WFP	BD30KA5WF
BD33KA5W		3.3											BD33KA5WFP	BD33KA5WF

7V耐压 500mA LDO稳压器 带关断开关(BDxxIA系列)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
BD00IA5WEFJ	2.4 to 5.5	Variable 0.8 to 4.5	±1 (T _a =+25°C)/ ±3 (T _a =-40 to +105°C) <Automotive Grade>	0.5	0.25	0.4 (I _O =500mA)	60 (f=100Hz, 50mV _{rpp} , I _O =0A)	25 (I _O =0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
BD10IA5WEFJ		1.0											HTSOP-J8
BD12IA5WEFJ		1.2											HTSOP-J8
BD15IA5WEFJ		1.5											HTSOP-J8
BD18IA5WEFJ		1.8											HTSOP-J8
BD25IA5WEFJ		2.5											HTSOP-J8
BD30IA5WEFJ		3.0											HTSOP-J8
BD33IA5WEFJ		3.3											HTSOP-J8

车载用 7V耐压 500mA LDO稳压器 带关断开关(BDxxIA系列)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00IA5MEFJ-M/ BD00IA5MHFV-M	2.4 to 5.5	Variable 0.8 to 4.5	±1 (T _a =+25°C)/ ±3 (T _a =-40 to +105°C) <Automotive Grade>	0.5	0.25	0.4 (I _O =500mA)	60 (f=100Hz, 50mV _{rpp} , I _O =0A)	25 (I _O =0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8/ HVSOF6	FSs	YES
BD10IA5MEFJ-M		1.0											HTSOP-J8	FSs	YES
BD12IA5MEFJ-M		1.2											HTSOP-J8	FSs	YES
BD15IA5MEFJ-M		1.5											HTSOP-J8	FSs	YES
BD18IA5MEFJ-M		1.8											HTSOP-J8	FSs	YES
BD25IA5MEFJ-M		2.5											HTSOP-J8	FSs	YES
BD30IA5MEFJ-M		3.0											HTSOP-J8	FSs	YES
BD33IA5MEFJ-M		3.3											HTSOP-J8	FSs	YES

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关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

7V耐压 500mA 可变输出/固定输出 LDO稳压器(工业设备用)																	
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package				
BD00IA5MEFJ-LB	2.4 to 5.5	Variable 0.8 to 4.5	±1/±3 (T _a =-40 to +105°C)	0.5	0.25	0.4 (I _o =500mA)	60 (f=100Hz, 50mV _{PP} , I _o =0A)	25 (I _o =0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8				
BD10IA5MEFJ-LB		1.0											HTSOP-J8				
BD12IA5MEFJ-LB		1.2											HTSOP-J8				
BD15IA5MEFJ-LB		1.5											HTSOP-J8				
BD18IA5MEFJ-LB		1.8											HTSOP-J8				
BD25IA5MEFJ-LB		2.5											HTSOP-J8				
BD30IA5MEFJ-LB		3.0											HTSOP-J8				
BD33IA5MEFJ-LB		3.3											HTSOP-J8				
6.5V耐压 500mA Full CMOS LDO稳压器																	
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (μA)	I/O Voltage Difference (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package							
BU18SD5WG	1.7 to 6.0	1.8	±1	0.5	33.0	150 (I _o =100mA)	68	0.5	Over Current/ Temperature	SSOP5							
BU33SD5WG		3.3				85 (I _o =100mA)				SSOP5							
6.5V耐压 500mA Full CMOS LDO稳压器 带关断开关 WL-CSP型																	
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package							
BU30SA5WGWZ	1.8 to 5.0	3	±1	0.5	0.033	0.08 (I _o =100mA)	70dB (f=1kHz)	6 (I _{OUT} =0.01mA to 300mA)	Over Current/ Temperature	UCSP30L1							
BU33SA5WGWZ		3.3								UCSP30L1							
6.5V耐压 300mA CMOS LDO稳压器 带关断开关																	
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Soft Start Function	Package
BH15M0AWHFV	2.5 to 5.5	1.5	±25mV	—	—	60	6 (I _o =1 to 100mA)	65	100	1.0	1.0	✓	✓	✓	—	—	HVSOF6
BH18M0AWHFV		1.8															HVSOF6
BH20M0AWHFV		2.0															HVSOF6
BH21M0AWHFV		2.1															HVSOF6
BH25M0AWHFV		2.5	±1	0.3	60 (I _o =100mA)	60	6 (I _o =1 to 100mA)	65	100	1.0	1.0	✓	✓	✓	—	—	HVSOF6
BH26M0AWHFV		2.6															HVSOF6
BH27M0AWHFV		2.7															HVSOF6
BH28M0AWHFV		2.8															HVSOF6
BH29M0AWHFV		2.9															HVSOF6
BH30M0AWHFV		3.0															HVSOF6
BH31M0AWHFV		3.1															HVSOF6
BH32M0AWHFV		3.2															HVSOF6
BH33M0AWHFV		3.3															HVSOF6
BH34M0AWHFV		3.4															HVSOF6

单通道输出 低饱和稳压器(LDO)

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

6.5V耐压 200mA CMOS LDO稳压器(低输出容量适用) 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package/Part No.													
																SSON004X1010	SSOP5												
BU10TD2/BU10TD3	1.7 to 5.5	1.0	±25mV	0.2	—	70	10 (I _o =1 to 100mA)	35	70	0.47	0.47	✓	✓	✓	✓	BU10TD2WNVX	BU10TD3WG												
BU1ATD2/—		1.05														BU1ATD2WNVX	—												
BU11TD2/BU11TD3		1.1														BU11TD2WNVX	BU11TD3WG												
BU1BDT2/—		1.15														BU1BDT2WNVX	—												
BU12TD2/BU12TD3		1.2														BU12TD2WNVX	BU12TD3WG												
BU1CTD2/BU1CTD3		1.25														BU1CTD2WNVX	BU1CTD3WG												
BU13TD2/BU13TD3		1.3														BU13TD2WNVX	BU13TD3WG												
BU15TD2/BU15TD3		1.5														BU15TD2WNVX	BU15TD3WG												
BU18TD2/BU18TD3		1.8														BU18TD2WNVX	BU18TD3WG												
BU1JTD2/BU1JTD3		1.85														BU1JTD2WNVX	BU1JTD3WG												
BU19TD2/BU19TD3		1.9														BU19TD2WNVX	BU19TD3WG												
BU20TD2/BU20TD3		2.0														BU20TD2WNVX	BU20TD3WG												
BU2ATD2/—		2.05	±1													BU2ATD2WNVX	—												
BU21TD2/BU21TD3		2.1														BU21TD2WNVX	BU21TD3WG												
BU23TD2/—		2.3														BU23TD2WNVX	—												
BU25TD2/BU25TD3		2.5	280 (I _o =200mA)													BU25TD2WNVX	BU25TD3WG												
BU26TD2/BU26TD3		2.6														BU26TD2WNVX	BU26TD3WG												
BU27TD2/BU27TD3		2.7	260 (I _o =200mA)													BU27TD2WNVX	BU27TD3WG												
BU2HTD2/—		2.75														BU2HTD2WNVX	—												
BU28TD2/BU28TD3		2.8	240 (I _o =200mA)													BU28TD2WNVX	BU28TD3WG												
BU2JTD2/BU2JTD3WG		2.85														BU2JTD2WNVX	BU2JTD3WG												
BU29TD2/BU29TD3		2.9	220 (I _o =200mA)													BU29TD2WNVX	BU29TD3WG												
BU30TD2/BU30TD3		3.0														BU30TD2WNVX	BU30TD3WG												
BU31TD2/BU31TD3		3.1														BU31TD2WNVX	BU31TD3WG												
BU32TD2/BU32TD3		3.2														BU32TD2WNVX	BU32TD3WG												
BU33TD2/BU33TD3		3.3														BU33TD2WNVX	BU33TD3WG												
BU34TD2/BU34TD3		3.4	BU34TD2WNVX		BU34TD3WG																								

车载用 6.5V耐压 200mA CMOS LDO稳压器 带关断开关

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package/Part No.	
																SSON004X1216	HVSOF5
BU15TA2W	2.5 to 5.5	1.5	±25mV	0.2	—	70	10 (I _o =0.01 to 100mA)	40	70	1.0	1.0	✓	✓	✓	✓	BU15TA2WNVX	BU15TA2WHFV
BU18TA2W		1.8			BU18TA2WNVX											BU18TA2WHFV	
BU25TA2W		2.5			BU25TA2WNVX											BU25TA2WHFV	
BU26TA2W		2.6			BU26TA2WNVX											BU26TA2WHFV	
BU27TA2W		2.7	±1		400 (I _o =200mA)	65										BU27TA2WNVX	BU27TA2WHFV
BU28TA2W		2.8			360 (I _o =200mA)											BU28TA2WNVX	BU28TA2WHFV
BU2JTA2W		2.85			330 (I _o =200mA)											BU2JTA2WNVX	BU2JTA2WHFV
BU29TA2W		2.9														BU29TA2WNVX	BU29TA2WHFV
BU30TA2W		3.0														BU30TA2WNVX	BU30TA2WHFV
BU31TA2W		3.1														BU31TA2WNVX	BU31TA2WHFV
BU32TA2W		3.2														BU32TA2WNVX	BU32TA2WHFV
BU33TA2W		3.3			300 (I _o =200mA)											BU33TA2WNVX	BU33TA2WHFV
BU34TA2W		3.4														BU34TA2WNVX	BU34TA2WHFV

车载用 6.5V耐压 200mA CMOS LDO稳压器 带关断开关(BUxxSD系列 V_{IN}=1.7 to 6.0V)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU12SD2MG-M	1.7 to 6.0	1.2	±2 (T _a =-40 to +105°C)	0.2	400 (I _o =100mA)	68	1 (I _o =1 to 200mA)	33	100	1.0	1.0	✓	✓	✓	—	SSOP5	FSs	YES
BU15SD2MG-M		1.5			280 (I _o =100mA)											SSOP5	FSs	YES
BU18SD2MG-M		1.8			150 (I _o =100mA)											SSOP5	FSs	YES
BU25SD2MG-M		2.5			100 (I _o =100mA)											SSOP5	FSs	YES
BU28SD2MG-M		2.8			85 (I _o =100mA)											SSOP5	FSs	YES
BU30SD2MG-M		3.0														SSOP5	FSs	YES
BU33SD2MG-M		3.3														SSOP5	FSs	YES

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

6.5V耐压 200mA CMOS LDO稳压器 带关断开关																			
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100	
BU10JA2MNVX-C	1.7 to 6.0	1.0	±36mV	0.2	800	70	10	35	70	0.47	0.47	✓	✓	✓	✓	SSON004R1010	FSs	YES	
BU11JA2MNVX-C		1.1			SSON004R1010											FSs	YES		
BU12JA2MNVX-C		1.2			SSON004R1010											FSs	YES		
BU1CJA2MNVX-C		1.25			SSON004R1010											FSs	YES		
BU15JA2MNVX-C		1.5			SSON004R1010											FSs	YES		
BU18JA2MNVX-C		1.8	SSON004R1010		FSs											YES			
BU25JA2MNVX-C		2.5	SSON004R1010		FSs											YES			
BU28JA2MNVX-C		2.8	SSON004R1010		FSs											YES			
BU2JJA2MNVX-C		2.85	SSON004R1010		FSs											YES			
BU29JA2MNVX-C		2.9	SSON004R1010		FSs											YES			
BU30JA2MNVX-C		3.0	SSON004R1010		FSs											YES			
BU33JA2MNVX-C		3.3	SSON004R1010		FSs											YES			
BU34JA2MNVX-C		3.4	SSON004R1010		FSs											YES			
BU10JA2VG-C		1.0	±2		0.2	-	68	0.5	33	100	1.0	1.0	✓	✓	✓	-	SSOP5	FSs	YES
BU12JA2VG-C		1.2															SSOP5	FSs	YES
BU1CJA2VG-C		1.25															SSOP5	FSs	YES
BU15JA2VG-C		1.5															SSOP5	FSs	YES
BU18JA2VG-C		1.8				160											SSOP5	FSs	YES
BU25JA2VG-C		2.5				100											SSOP5	FSs	YES
BU28JA2VG-C		2.8				85											SSOP5	FSs	YES
BU2JJA2VG-C		2.85															SSOP5	FSs	YES
BU30JA2VG-C		3.0															SSOP5	FSs	YES
BU33JA2VG-C		3.3															SSOP5	FSs	YES
BU10JA2DG-C		1.0	✓		0.2	-	68	0.5	33	100	1.0	1.0	✓	✓	✓	-	SSOP5	FSs	YES
BU12JA2DG-C		1.2															SSOP5	FSs	YES
BU1CJA2DG-C		1.25															SSOP5	FSs	YES
BU15JA2DG-C		1.5															SSOP5	FSs	YES
BU18JA2DG-C		1.8				160											SSOP5	FSs	YES
BU25JA2DG-C		2.5				100											SSOP5	FSs	YES
BU28JA2DG-C		2.8				85											SSOP5	FSs	YES
BU2JJA2DG-C		2.85															SSOP5	FSs	YES
BU30JA2DG-C		3.0															SSOP5	FSs	YES
BU33JA2DG-C		3.3															SSOP5	FSs	YES
6.5V耐压 200mA CMOS LDO稳压器 带关断开关 WL-CSP型																			
Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package (mm)			
BU18SA4WGWL	1.7 to 5.5	1.8	±2	0.2	100 (I _O =150mA)	70	2 (I _O =1 to 100mA)	40	100	0.47	0.47	✓	✓	✓	-	UCSP50L1 0.8×0.8, H=Max 0.55mm			
BU25SA4WGWL		2.5			UCSP50L1 0.8×0.8, H=Max 0.55mm														
BU2FSA4WGWL		2.55			UCSP50L1 0.8×0.8, H=Max 0.55mm														
BU28SA4WGWL		2.8			UCSP50L1 0.8×0.8, H=Max 0.55mm														
BU30SA4WGWL		3.0			UCSP50L1 0.8×0.8, H=Max 0.55mm														
BU33SA4WGWL		3.3			UCSP50L1 0.8×0.8, H=Max 0.55mm														

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

单通道输出 低饱和稳压器(LDO)

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

6.5V耐压 150mA CMOS LDO稳压器 带关断开关

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Package
BH25NB1WHFV	2.5 to 5.5	2.5	±1	0.15	250 (I _O =100mA)	80	6 (I _O =1 to 100mA)	60	50	0.1	2.2	✓	✓	✓	HVSOF5
BH28NB1WHFV		2.8													HVSOF5
BH2JNB1WHFV		2.85													HVSOF5
BH29NB1WHFV		2.9													HVSOF5
BH30NB1WHFV		3.0													HVSOF5
BH31NB1WHFV		3.1													HVSOF5
BH33NB1WHFV		3.3													HVSOF5

6.5V耐压 150mA CMOS LDO稳压器 WL-CSP型

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Package (mm)
BH15RB1WGUT	2.5 to 5.5	1.5	±25mV	0.15	—	63	2 (I _O =1 to 100mA)	34	40	1.0	1.0	✓	✓	✓	VCSP60N1 1.04×1.0, H=Max 0.675
BH18RB1WGUT		1.8													VCSP60N1 1.04×1.0, H=Max 0.675
BH25RB1WGUT		2.5	±1		100 (I _O =100mA)										VCSP60N1 1.04×1.0, H=Max 0.675
BH28RB1WGUT		2.8													VCSP60N1 1.04×1.0, H=Max 0.675
BH29RB1WGUT		2.9													VCSP60N1 1.04×1.0, H=Max 0.675
BH30RB1WGUT		3.0													VCSP60N1 1.04×1.0, H=Max 0.675
BH31RB1WGUT		3.1													VCSP60N1 1.04×1.0, H=Max 0.675
BH33RB1WGUT		3.3													VCSP60N1 1.04×1.0, H=Max 0.675

6.5V耐压 150mA CMOS LDO稳压器 带模式切换功能

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)		Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current(μA)		Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package	
			High Speed Mode	Low I _{CC} Mode					High Speed Mode	Low I _{CC} Mode									
BH12PB1WHFV	1.7 to 5.5	1.2	±25mV	-3.3 to +4.3	0.15	—	60 (High speed mode)	10 (I _o =10 to 100mA)	20	2	50	0.47	0.47	✓	✓	✓	✓	HVSOF5	
BH15PB1WHFV		1.5																HVSOF5	
BH18PB1WHFV		1.8																HVSOF5	
BH25PB1WHFV		2.5																HVSOF5	
BH28PB1WHFV		2.8	±1	-3.0 to +3.8		210 (I _o =100mA)												HVSOF5	
BH29PB1WHFV		2.9																	HVSOF5
BH30PB1WHFV		3.0																	HVSOF5
BH31PB1WHFV		3.1																	HVSOF5
BH33PB1WHFV		3.3																	HVSOF5

超低饱和型、快速瞬态响应

Part No.	Output Current (A)	Input Voltage (V)		Output Voltage (V)	Voltage Accuracy (%)	Power Good	Adjustable Soft Start	UVLO	OCP	TSD	Package
		V _{CC}	V _{IN}								
BD3550HFN	0.5	4.3 to 5.5	0.95 to (V _{CC} -1)	0.65 to 2.70	±1	—	✓	✓	Recovery	Recovery	HSO8
BD3507HFV	0.55	4.5 to 5.5	1.2 to (V _{CC} -1)								HVSOF6
BD3551HFN	1.0	4.3 to 5.5	0.95 to (V _{CC} -1)	HSO8							
BD3506F	2.5		1.2 to (V _{CC} -1)	0.65 to 2.50							SOP8
BD3552HFN	2.0		0.95 to (V _{CC} -1)	0.65 to 2.70	HSO8						
BD3508MUV	3.0		0.75 to (V _{CC} -1)		VQFN020V4040						
BD3540NUV	0.5	3.0 to 5.5	0.95 to (V _{CC} -1)	0.65 to 2.70	±1	✓	✓	✓	Recovery	Recovery	VSON010V3030
BD3541NUV	1.0									VSON010V3030	
BD3512MUV	3.0	4.3 to 5.5	0.7 to (V _{CC} -1)							Latch	VQFN020V4040
BD3509MUV	4.0									Recovery	VQFN020V4040
BD3504FVM	External FET	4.5 to 5.5	V _O +(I _O ×R _{on}) to (V _{CC} -1)	0.65 to 2.50	±1	—	✓	✓	Latch	Latch	MSOP8
BD3521FVM	External FET			1.5						MSOP8	

高音质音频电源

Part No.	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Reference Voltage Accuracy (%)	Dropout Voltage (mV)	Noise Level (μVrms)	PSRR (dB)	Over Current Protection	Thermal Protection	Package
BD37201NUX	0.5	2.7 to 5.5	Variable 1.0 to 4.5	±1	200	3.3	90 (f=1kHz) 55 (f=1MHz)	✓	✓	VSON008X2030
☆BD37210AMUV	1.0	3.0 to 16.0	Variable 1.0 to 15.0	±1	300	4.6	78 (f=1kHz) 53 (f=1MHz)	✓	✓	VQFN020V4040
☆BD37215AMUV	1.0	-16.0 to -3.0	Variable -15.0 to -1.0	±1	300	5.1	90 (f=1kHz) 55 (f=1MHz)	✓	✓	VQFN020V4040

UVLO : Under Voltage Lock Out, OCP : Over Current Protection, TSD : Thermal Shut Down

☆ : 开发中

带看门狗计时器的低饱和稳压器

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

550mA LDO稳压器 + 看门狗计时器复位

Part No.	Input Voltage (V)	LDO				Voltage Detector			Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)	Function					
BD4271EFJ-C	5.5 to 45.0	5	±2 (T _J =−40 to +150°C)	0.55	0.2 (I _O =300mA)	4.65	±2.6	4.65V Voltage Detector+WDT	75	T _J =−40 to +150	HTSOP-J8	FSs	YES
BD4271HFP-C											HRP7	FSs	YES
BD4271FP2-C											TO263-7	FSs	YES

500mA LDO稳压器 + 看门狗计时器复位

BD3021HFP	5.6 to 36.0	5	±2 (T _a =−40 to +125°C)	0.5	0.3 (I _O =200mA)	4.5	±2	4.5V Voltage Detector+WDT (Active switch)	80	T _a =−40 to +125	HRP7	YES
BD3020HFP						Variable (at V _S open: 4.1V)		Adjustable Voltage Detector+WDT			HRP7	

200mA LDO稳压器 + 看门狗计时器复位

BD820F50EFJ-C	5.9 to 42.0	5	±2 (T _J =−40 to +150°C)	0.2	0.4 (I _O =200mA)	4.2	±2.62	4.2V Voltage Detector+WDT	5	T _J =−40 to +150	HTSOP-J8	FSs	YES
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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

带电压检测器的低饱和稳压器

500mA LDO稳压器 + 复位

Part No.	Input Voltage (V)	LDO				Voltage Detector		Shutdown Switch	Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)						
BD42754FPJ-C	5.5 to 45.0	5	±2 (T _J =−40 to +150°C, V _{CC} =6.0 to 28V, I _O =5 to 400mA)	0.5	0.25 (I _O =300mA)	4.62	±2.8	—	75	T _J =−40 to +150	TO252-J5	FSs	YES
BD42754FP2-C	45.0										TO263-5	FSs	YES

200mA/300mA LDO稳压器 + 复位

BD4269FJ-C	5.5 to 45.0	5	±2 (T _J =−40 to +150°C, V _{CC} =6.0 to 16V, I _O =1 to 100mA)	0.2	0.25 (I _O =100mA)	Variable (with RADJ not used: 4.62V)	±2.6	—	70	T _J =−40 to +150	SOP-J8	FSs	YES
BD4269EFJ-C				0.3							HTSOP-J8	FSs	YES

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电压跟踪器

500mA 电压跟踪器

Part No.	Input Voltage (V)	Output Current (A)	Offset Voltage (mV)	Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3925FP-C	4.5 to 36.0	0.5	±10 (T _a =−40 to +125°C, V _{CC} =6 to 36V, I _O =5 to 200mA)	45	T _a =−40 to +125	TO252-5	FSs	YES
BD3925HFP-C						HRP5	FSs	YES

50mA/70mA 电压跟踪器

BD42500G-C	5.3*2 to 42.0	0.05	±15 (T _J =−40 to +150°C, V _{CC} =6 to 40V, I _O =1 to 50mA)	40	T _J =−40 to +150	SSOP5	FSs	YES
BD42540FJ-C	5.4*2 to 42.0	0.07	±10 (T _J =−40 to +150°C, V _{CC} =5.5 to 26V, I _O =0.1 to 60mA)	40	T _J =−40 to +150	SOP-J8	FSs	YES

250mA 电压跟踪器

BD42530EFJ-C	5.6*2 to 42.0	0.25	±10 (T _J =−40 to +150°C, V _{CC} =6 to 32V, I _O =0.1 to 250mA)	40	T _J =−40 to +150	HTSOP-J8	FSs	YES
BD42530FP2-C	5.6*2 to 42.0	0.25	±10 (T _J =−40 to +150°C, V _{CC} =6 to 32V, I _O =0.1 to 250mA)	40	T _J =−40 to +150	TO263-5	FSs	YES
BD42530FPJ-C	5.6*2 to 42.0	0.25	±10 (T _J =−40 to +150°C, V _{CC} =6 to 32V, I _O =0.1 to 250mA)	40	T _J =−40 to +150	TO252-J5	FSs	YES

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

*2 5V setting

多通道输出 低饱和稳压器(LDO)

关于输入电压, 请考虑输出电压值以及输入输出电压差后使用。

2ch LDO稳压器

Part No.	Input Voltage (V)	Output Voltage1 (V)	Output Voltage2 (V)	Output voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Protection Circuit	Package
BA30E00WHFP	4.1 to 16.0	3.3	Variable 0.8 to 3.3	±2	0.6/0.6	0.7	0.3 (I _o =300mA)	68 (3.3V output)	30 (I _o =0 to 0.6A)	1.0	47	✓	Over-Current/ Temperature	HRP7
BA3259HFP	4.75 to 14.00				1.0/1.0	3.0	1.1 (I _o =1A)	52	5 (I _o =5mA to 1A)	3.3	1.0	—		HRP5
BA33D15HFP	4.1 to 16.0		1.5		0.5/0.5	0.7	0.25 (I _o =250mA)	58 (1.5V output)	30 (I _o =0 to 500mA)	1.0				HRP5
BA33D18HFP			1.8											HRP5

2ch 高效率 CMOS稳压器

Part No.	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Ripple Rejection (dB)	Load Regulation (%)	Output Short Current (mA)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package (mm)
BD70511GWL	LDO1	1.2	1.5	0.15	60	10	30	✓	✓	✓	✓	UCSP50L1C 1.9x1.2, H=Max 0.57
	LDO2			0.3			65					

2ch 输出可选 CMOS LDO稳压器

Part No.	Input Voltage (V)	Selectable Output Voltage (V)										Output Voltage Precision (%)	Output Current (A)	Vsat (mV) (I _O =100mA)	Ripple Rejection (dB)	Load Regulation (%)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Low Voltage Protection	Package (mm)
		V _{OUT}																							
BD7003NUX	2.5 to 5.5	1ch	1.5	1.8	1.8	1.8	1.8	2.6	2.8	2.9	2.8	1.8	0.3	90	66	0.2 (I _O =1 to 300mA)	55	150	1.0	1.0	✓	✓	✓	✓	VSON008X2020
		2ch	2.8	2.6	2.7	2.8	2.9	2.8	2.8	2.9	3.3														
BD7004NUX		1ch	1.2	1.2	1.8	1.8	1.8	1.8	2.8	3.0	3.3														
		2ch	1.5	1.8	1.5	1.8	3.0	3.3	3.0	3.0	3.3														
BD7602GUL	2.7 to 5.5	1ch	3.0										2	0.1	—	45	0.7	10	—	4.7					VCSP50L1C 1.6x1.6, H=Max 0.57
		2ch	2.8	2.9	2.95	3.0	3.05	3.1	3.2	3.3	—														

3ch CMOS LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision	Output Current (A)	Vsat (mV) (I _o =200mA)	Ripple Rejection (dB)	Load Regulation (%)	ch	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over Current Protection	Temperature Protection	Discharge Function	Package
BU6650NUX	2.5 to 5.5	2.8	±1%	0.2	360	65	10 (I _o =1 to 100mA)	1	120	70	2.2	1.0	✓	✓	✓	✓	VSON008X2030
		2.8	±1%		360	65		2									
		1.8	±25mV		—	70		3									
BU6651NUX		2.8	±1%		360	65		1									VSON008X2030
		1.8	±25mV		—	70		2									
		1.5	±25mV		—	70		3									
BU6652NUX		2.8	±1%		360	65		1									VSON008X2030
		2.8	±1%		360	65		2									
		1.5	±25mV		—	70		3									
BU6653NUX		2.8	±1%		360	65		1									VSON008X2030
		1.8	±25mV		—	70		2									
		1.8	±25mV		—	70		3									
BU6654NUX		3.3	±1%		300	65		1									VSON008X2030
		1.8	±25mV		—	70		2									
		1.5	±25mV		—	70		3									
BU6655NUX		3.3	±1%		300	65		1									VSON008X2030
		2.8	±1%		360	65		2									
		1.8	±25mV		—	70		3									

DDR SDRAM用线性稳压器

DDR SDRAM用终端稳压器

Part No.	V _{CC} Input Voltage (V)	V _{TT,IN} Termination Input Voltage (V)	V _{DDO} Reference Input Voltage (V)	V _{TT} Output Voltage (V)	V _{TT} Voltage Precision (mV)	V _{TT} Output Current (A)	V _{REF} Output Current (mA)	Features														Package		
								Enable	Soft Start	Power Good	UVLO	Output Ceramic Capacitors	Thermal Protection	DDR (VDDQ)										
														DDR1 (2.5V/2.6V)	DDR2 (1.8V)	DDR2L (1.5V)	LPDDR2 (1.2V)	DDR3 (1.5V)	DDR3L (1.35V)	DDR3U (1.25V)	LPDDR3 (1.2V)		DDR4 (1.2V)	
BD3533F	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±30	±1.0	±20	✓	✓	—	✓	—	Recovery	✓	✓	—	—	—	—	—	—	SOP8		
BD3533FVM								✓	✓	—	—	—	—	—	—	—	MSOP8							
BD3533HFN								✓	✓	—	—	—	—	—	—	—	HSOP8							
BD3539FVM	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±15	±1.0	±25	✓	✓	—	✓	✓	Recovery	✓	✓	✓	—	✓	—	—	—	MSOP8		
BD3539NUX								✓	✓	—	✓	✓	Recovery	✓	✓	✓	—	✓	—	—	—	—	VSON008X2030	
BD35390FJ	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±15	±1.0	—	✓	✓	✓	✓	✓	Recovery	✓	✓	✓	—	✓	—	—	—	SOP-J8		

车载用 DDR SDRAM用终端稳压器

Part No.	V _{CC} Input Voltage (V)	V _{TT,IN} Termination Input Voltage (V)	V _{DDO} Reference Input Voltage (V)	V _{TT} Output Voltage (V)	V _{TT} Voltage Precision (mV)	V _{TT} Output Current (A)	V _{REF} Output Current (mA)	Features												Package	Automotive Grade AEC-Q100				
								Enable	Soft Start	Power Good	UVLO	Output Ceramic Capacitors	Thermal Protection	DDR (VDDQ)											
														DDR1 (2.5V/2.6V)	DDR2 (1.8V)	DDR2L (1.5V)	LPDDR2 (1.2V)	DDR3 (1.5V)	DDR3L (1.35V)			DDR3U (1.25V)	LPDDR3 (1.2V)	DDR4 (1.2V)	
BD35395FJ-M	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.500 to 1.375	±13.5	±1.0	—	✓	✓	✓	✓	✓	Recovery	✓	✓	✓	—	✓	✓	—	—	—	SOP-J8	YES	

开关稳压器

内置FET的开关稳压器(降压转换器)	P.45	内置FET的开关稳压器(升压/升降压转换器)	P.47
外置FET的开关稳压器(降压控制器)	P.48	外置FET的开关稳压器(升压/升降压控制器)	P.48
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开关稳压器

内置FET的开关稳压器(降压转换器)

耐压7V以下 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features						Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9122GUL	7	0.3	2.5 to 5.5	1 to 2	1	200	Current	—	—	✓	✓	Latch	Latch	VCSP50L2 2.5x1.1, H=0.55
Nano BD70522GUL*1	6	0.5	2.5 to 5.5	1.2 to 3.3*2	1	0.18	On-time	✓	—	✓	✓	Recovery	Recovery	VCSP50L1C 1.76x1.56, H=0.57
BD9161FVM	7	0.6	2.5 to 4.5	1.0 to 3.3	1	200	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9161FVM-LB	7	0.6	2.5 to 4.5	1.0 to 3.3	1	200	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9120HFN	7	0.8	2.7 to 4.5	1.0 to 1.5	1	200	Current	—	—	✓	✓	Latch	Latch	HSO8
BD9102FVM	7	0.8	4.0 to 5.5	1.24	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD8966FVM	7	0.8	4.0 to 5.5	1.0 to 2.5	1	—	Current	—	—	✓	—	Latch	Latch	MSOP8
BD9106FVM	7	0.8	4.0 to 5.5	1.0 to 2.5	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9106FVM-LB	7	0.8	4.0 to 5.5	1.0 to 2.5	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9109FVM	7	0.8	4.5 to 5.5	3.3	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9109FVM-LB	7	0.8	4.5 to 5.5	3.3	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD8967FVM	7	0.8	4.5 to 5.5	3.3	1	—	Current	—	—	✓	—	Latch	Latch	MSOP8
BD9104FVM	7	0.8	4.5 to 5.5	3.3	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9A100MUV	7	1	2.7 to 5.5	0.8 to (V _{IN} ×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9A101MUV-LB	7	1	2.7 to 5.5	0.8 to (V _{IN} ×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B100MUV	7	1	2.7 to 5.5	0.8 to (V _{IN} ×0.8)	2/1	35	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BU90008GWZ	7	1	2.3 to 5.5	1	3.6	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90003GWZ	7	1	2.3 to 5.5	1.2	4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90007GWZ	7	1	2.3 to 5.5	1.25	4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90009GWZ	7	1	2.3 to 5.5	1.3	4.2	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90004GWZ	7	1	2.3 to 5.5	1.8	5.4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90104GWZ	7	1	2.3 to 5.5	1.8	5.4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90090GWZ	7	1	2.3 to 5.5	1.83	5.4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90005GWZ	7	1	2.3 to 5.5	2.5	6	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90006GWZ	7	1	2.3 to 5.5	3	6	55	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4
BU90002GWZ	7	1	4.0 to 5.5	3.3	6	55	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3x0.9, H=0.4

耐压7V以下 1.2~3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features						Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9123MUV	7	1.2	2.7 to 5.5	0.85 to 1.2	1	300	Current	✓	—	✓	✓	Latch	Latch	VQFN016V3030
BD8964FVM	7	1.2	4.0 to 5.5	1.0 to 1.8	1	—	Current	—	—	✓	—	Latch	Latch	MSOP8
BD9107FVM	7	1.2	4.0 to 5.5	1.0 to 1.8	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BU90028NUX	7	1.5	2.3 to 5.5	1.18	1	53	On-time	—	—	✓	✓	Recovery	Recovery	VSON008X2030
BU90023NUX	7	1.5	2.3 to 5.5	1.23	1	53	On-time	—	—	✓	✓	Recovery	Recovery	VSON008X2030
BD9B200MUV	7	2	2.7 to 5.5	0.8 to (V _{IN} ×0.8)	2/1	40	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
New BD9A201FP4-LBZ	7	2	2.7 to 5.5	0.8 to (V _{IN} ×0.7)	1	350	Current	✓	—	✓	—	Recovery	Recovery	TSOT23-8L
BD9110NV	7	2	4.5 to 5.5	1.0 to 2.5	1	250	Current	—	—	✓	✓	Latch	Latch	SON008V5060
BD89630EFJ	7	2	2.7 to 5.5	1.0 to 2.5*2	1	—	Current	—	—	✓	—	Latch	Latch	HTSOP-J8
BD8960NV	7	2	2.7 to 5.5	1.0 to 2.5*2	1	—	Current	—	—	✓	—	Latch	Latch	SON008V5060
BD9130NV	7	2	2.7 to 5.5	1.0 to 2.5*2	1	250	Current	—	—	✓	✓	Latch	Latch	SON008V5060
BD8961NV	7	2	4.5 to 5.5	3.3	1	—	Current	—	—	✓	—	Latch	Latch	SON008V5060
BD9111NV	7	2	4.5 to 5.5	3.3	1	250	Current	—	—	✓	✓	Latch	Latch	SON008V5060
BD8962MUV	7	3	2.7 to 5.5	0.8 to 2.5*2	1	—	Current	—	—	✓	—	Latch	Latch	VQFN020V4040
BD8963EFJ	7	3	2.7 to 5.5	1.0 to 2.5*2	1	—	Current	—	—	✓	—	Latch	Latch	HTSOP-J8
BD9139MUV	7	3	2.7 to 5.5	0.8 to 3.3*2	1	200	Current	—	—	✓	✓	Latch	Latch	VQFN016V3030
BD9A300MUV	7	3	2.7 to 5.5	0.8 to (V _{IN} ×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9A301MUV-LB	7	3	2.7 to 5.5	0.8 to (V _{IN} ×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9A302QWZ	7	3	2.7 to 5.5	0.8 to (V _{IN} ×0.7)	1	350	Current	—	—	✓	✓	Recovery	Recovery	UMMP008AZ020 2.0x2.0, H=0.4
BD9B305QUZ	7	3	2.7 to 5.5	0.6 to (V _{IN} ×0.8)	1	15	On-time	✓	✓	✓	✓	Recovery	Recovery	VMMP08L Z2020 2.0x2.0, H=0.4
BD9B333GWZ	7	3	2.7 to 5.5	0.6 to (V _{IN} ×0.8)	1.3	50	On-time	✓	✓	✓	Deep	Recovery	Recovery	UCSP35L1 1.98x1.8, H=0.4
BD9B300MUV	7	3	2.7 to 5.5	0.8 to (V _{IN} ×0.8)	2/1	35	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9B301MUV-LB	7	3	2.7 to 5.5	0.8 to (V _{IN} ×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9B304QWZ	7	3	2.7 to 5.5	0.8 to (V _{IN} ×0.8)	2/1	40	On-time	—	—	✓	Deep	Recovery	Recovery	UMMP008AZ020 2.0x2.0, H=0.4

*1 BD70522GUL内搭载了日本碍子株式会社的小型大容量锂离子二次电池“EnerCera”的超高效电池管理解决方案参考板“REFLBMS001-EVK-001”。详情请参阅网站。

*2 根据输入输出电压条件，会存在限制。

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内置FET的开关稳压器(降压转换器)

耐压7V以下 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features						Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9137MUV	7	4	2.7 to 5.5	0.8 to 3.3*	1	250	Current	—	—	✓	✓	Recovery	Recovery	VQFN020V4040
BD91361MUV	7	4	2.7 to 5.5	0.8 to 3.3*	1	250	Current	—	—	✓	✓	Latch	Latch	VQFN020V4040
BD9A400MUV	7	4	2.7 to 5.5	0.8 to (V _{IN} ×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B400MUV	7	4	2.7 to 5.5	0.8 to (V _{IN} ×0.8)	2/1	45	On-time	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD91364BMUU	7	5	2.9 to 5.5	0.8 to (V _{IN} ×0.8)	1.7	150	On-time	✓	✓	✓	✓	Latch	Recovery	VQFN20U4040M
BD9B500MUV	7	5	2.7 to 5.5	0.8 to (V _{IN} ×0.8)	2/1	45	On-time	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9A600MUV	7	6	2.7 to 5.5	0.8 to (V _{IN} ×0.7)	1	400	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B600MUV	7	6	2.7 to 5.5	0.8 to (V _{IN} ×0.8)	2/1	45	On-time	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030

耐压20V以下 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features						Package	
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection		Over-Voltage Protection
BD8312HFN	15	0.8	3.5 to 14.0	1.2 to 12.0*	1.5	600	Voltage	—	—	✓	—	—	Recovery	—	HSO8
BD8313HFN	15	1	3.5 to 14.0	1.2 to 12.0*	1	600	Voltage	—	—	✓	—	—	Recovery	—	HSO8

耐压20V以下 2A~3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9141MUV	15	2	4.5 to 13.2	2.5 to 6.0*	0.5	300	Current	—	—	✓	✓	Latch	Latch	—	VQFN020V4040
BD95821MUV	15.2	2	7.5 to 15.0	0.8 to (V _{IN} ×0.5) (V _{IN} ×0.5)≤5.5	0.5 to 0.8	1,200	H ³ Reg	✓	—	✓	—	Latch	Recovery	✓	VQFN016V3030
BD9325FJ	20	2	4.75 to 18.0	0.9 to (V _{IN} ×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	SOP-J8
BD9325FJ-LB	20	2	4.75 to 18.0	0.9 to (V _{IN} ×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	SOP-J8
BD9859EFJ	15	3	5 to 14	1.0 to (V _{IN} ×0.7)	0.75	2,800	Current	—	—	—	—	Recovery	Recovery	—	HTSOP-J8
BD95831MUV	15.2	3	7.5 to 15.0	0.8 to (V _{IN} ×0.5) (V _{IN} ×0.5)≤5.5	0.5 to 0.8	1,200	H ³ Reg	✓	—	✓	—	Latch	Recovery	✓	VQFN016V3030
BD9D320EFJ	20	3	4.5 to 18.0	0.765 to 7.0 (V _{IN} ×0.07) to (V _{IN} ×0.65)	0.7	1,000	On-time	—	✓	✓	—	Recovery	Recovery	—	HTSOP-J8
BD9D300MUV	20	3	4.0 to 17.0	0.9 to 5.25	1.25	20	On-time	✓	✓	✓	✓	Recovery	Recovery	✓	VQFN016V3030
BD9C301FJ	20	3	4.5 to 18.0	(V _{IN} ×0.125) to (V _{IN} ×0.7)	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	SOP-J8
BD9C301FJ-LB	20	3	4.5 to 18.0	(V _{IN} ×0.125) to (V _{IN} ×0.7)	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	SOP-J8
BD9D321EFJ	20	3	4.5 to 18.0	0.765 to 7.0 (V _{IN} ×0.07) to (V _{IN} ×0.65)	0.7	700	On-time	—	✓	✓	✓	Recovery	Recovery	—	HTSOP-J8
BD9D322QWZ	20	3	4.5 to 18.0	0.765 to 7.0 (V _{IN} ×0.07) to (V _{IN} ×0.65)	0.7	700	On-time	—	✓	✓	✓	Recovery	Recovery	—	UMMP008Z2020 2.0×2.0, H=0.4
BD9D323QWZ	20	3	4.5 to 18.0	0.765 to 7.0 (V _{IN} ×0.07) to (V _{IN} ×0.65)	0.7	1,000	On-time	—	✓	✓	—	Recovery	Recovery	—	UMMP008Z2020 2.0×2.0, H=0.4
BD9326EFJ	20	3	4.75 to 18.0	0.9 to (V _{IN} ×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	HTSOP-J8
BD9326EFJ-LB	20	3	4.75 to 18.0	0.9 to (V _{IN} ×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	HTSOP-J8

耐压20V以下 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD95841MUV	15.2	4	7.5 to 15.0	0.8 to (V _{IN} ×0.5) (V _{IN} ×0.5)≤5.5	0.5 to 0.8	1,200	H ³ Reg	✓	—	✓	—	Latch	Recovery	✓	VQFN016V3030
BD9C401EFJ	20	4	4.5 to 18.0	(V _{IN} ×0.125) to (V _{IN} ×0.7) (V _{IN} ×0.125)≥0.8	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	HTSOP-J8
BD9327EFJ	20	4	4.75 to 18.0	0.9 to (V _{IN} ×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	HTSOP-J8
BD9327EFJ-LB	20	4	4.75 to 18.0	0.9 to (V _{IN} ×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	HTSOP-J8
BD9C501EFJ	20	5	4.5 to 18.0	(V _{IN} ×0.075) to (V _{IN} ×0.7) (V _{IN} ×0.075)≥0.8	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	HTSOP-J8
BD9C601EFJ	20	6	4.5 to 18.0	(V _{IN} ×0.075) to (V _{IN} ×0.7) (V _{IN} ×0.075)≥0.8	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	HTSOP-J8
BD95861MUV	20	6	7.5 to 18.0	0.8 to (V _{IN} ×0.5) (V _{IN} ×0.5)≤5.5	0.35 to 0.80	1,200	H ³ Reg	✓	—	✓	—	Latch	Recovery	✓	VQFN024V4040

耐压22V以上 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features						Package	
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection		Over-Voltage Protection
BD9G102G-LB	45	0.5	6 to 42	(V _{IN} ×0.08) to (V _{IN} ×0.8) (V _{IN} ×0.08)≥0.75	1	500	Current	—	—	—	—	Recovery	Recovery	✓	SSOP6
BD9G101G	45	0.5	6 to 42	(V _{IN} ×0.15) to (V _{IN} ×0.7) (V _{IN} ×0.15)≥1.0	1.5	700	Current	—	—	—	—	Recovery	Recovery	—	SSOP6
BD9227F	22	1	6 to 20	(V _{IN} ×0.252) to V _{IN} (V _{IN} ×0.252)≥1.0	1	400	Current	—	—	—	—	Recovery	Recovery	—	SOP8
BD9E104FJ	30	1	7 to 26	(V _{IN} ×0.143) to (V _{IN} ×0.5) (V _{IN} ×0.143)≥1.0	0.57	250	Current	—	—	✓	✓	Recovery	Recovery	✓	SOP-J8
BD9E101FJ-LB	40	1	7 to 36	(V _{IN} ×0.0855) to (V _{IN} ×0.7) (V _{IN} ×0.0855)≥1.0	0.57	1,500	Current	—	—	✓	—	Recovery	Recovery	✓	SOP-J8
BD9E100FJ-LB	40	1	7 to 36	(V _{IN} ×0.15) to (V _{IN} ×0.7) (V _{IN} ×0.15)≥1.0	1	1,500	Current	—	—	✓	—	Recovery	Recovery	✓	SOP-J8
BD9V101MUF-LB	70	1	16 to 60	0.8 to 5.5	1.9 to 2.3	2,500	Current	✓	—	✓	—	Recovery	Recovery	✓	VQFN24FV4040

*根据输入输出电压条件, 会存在限制。

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耐压22V以上 1.2A~3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9E151ANUX	30	1.2	6 to 28	1.0 to (V _{IN} ×0.7) or (V _{IN} -5.0)*2	0.6	800	Current	—	✓	—	—	Recovery	Recovery	✓	VSON008X2030
BD9701CP-V5	36	1.5	8 to 35	1.0 to (V _{IN} -3.0)	0.1	4,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9701FP	36	1.5	8 to 35	1.0 to (V _{IN} -3.0)	0.1	4,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO252-5
BD9703CP-V5	36	1.5	8 to 35	1.0 to (V _{IN} -3.0)	0.3	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9703FP	36	1.5	8 to 35	1.0 to (V _{IN} -3.0)	0.3	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO252-5
BD9870FPS	36	1.5	8 to 35	1.0 to (0.8×(V _{IN} -I _O ×RON))	0.9	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO252S-5
BD9873CP-V5	36	1.5	8 to 35	1.0 to (0.8×(V _{IN} -I _O ×RON))	0.11	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9G201EFJ-LB	45	1.5	4.5 to 42.0	0.8 to V _{IN} *1	0.3	1,200	Current	—	—	—	—	Recovery	Recovery	—	HTSOP-J8ES
BD9778HFP	36	2	7 to 35	(V _{IN} ×0.06) to V _{IN} (V _{IN} ×0.06)≥1.0	0.05 to 0.50	3,000	Voltage	—	—	—	—	Recovery	Recovery	—	HRP7
BD9E301EFJ-LB	40	2.5	7 to 36	(V _{IN} ×0.0855) to (V _{IN} ×0.7) (V _{IN} ×0.0855)≥1.0	0.57	1,500	Current	—	—	✓	—	Recovery	Recovery	✓	HTSOP-J8
BD9E300EFJ-LB	40	2.5	7 to 36	(V _{IN} ×0.15) to (V _{IN} ×0.7) (V _{IN} ×0.15)≥1.0	1	1,500	Current	—	—	✓	—	Recovery	Recovery	✓	HTSOP-J8
BD9E302EFJ	30	3	7 to 28	(V _{IN} ×0.11) to (V _{IN} ×0.7) (V _{IN} ×0.11)≥1.0	0.55	290	Current	—	—	✓	✓	Recovery	Recovery	✓	HTSOP-J8
BD95513MUV	30	3	4.5 to 28.0	0.7 to 5.0	0.2 to 1.0	1,200	H ³ Reg	✓	✓	✓	✓	Latch	Recovery	✓	VQFN032V5050
BD9702CP-V5	36	3	8 to 35	1.0 to (V _{IN} -3.0)	0.11	4,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9874CP-V5	36	3	8 to 35	1.0 to (0.8×(V _{IN} -I _O ×RON))	0.11	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9E303EFJ-LB	40	3	7 to 36	(V _{IN} ×0.06) to (V _{IN} ×0.8) (V _{IN} ×0.06)≥1.0	0.3	2,200	Current	—	—	✓	—	Recovery	Recovery	✓	HTSOP-J8
BD9G341AEFJ	80	3	12 to 76	1.0 to (V _{IN} ×0.9)*1	0.05 to 0.75	1,500	Current	—	—	—	—	Recovery	Recovery	✓	HTSOP-J8
BD9G341AEFJ-LB	80	3	12 to 76	1.0 to (V _{IN} ×0.9)*1	0.05 to 0.75	1,500	Current	—	—	—	—	Recovery	Recovery	✓	HTSOP-J8

耐压22V以上 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD95514MUV	30	4	4.5 to 28.0	0.7 to 5.0	0.2 to 1.0	1,300	H ³ Reg	✓	✓	✓	✓	Latch	Recovery	✓	VQFN032V5050
BD9F500QUZ	39	3 or 5	4.5 to 36.0	0.6 to 14.0	0.6, 1.0, 2.2	20	On-time	✓	✓	✓	✓	Recovery	Recovery	✓	VMMPI6L23030
BD9G500EFJ-LA	80	5	7 to 76	1.0 to (0.97×V _{IN})*1	0.1 to 0.65	750	Current	—	—	—	—	Recovery	Recovery	✓	HTSOP-J8
BD95500MUV	24	6	3 to 20	0.7 to 5.0	0.2 to 1.0	1,200	H ³ Reg	✓	✓	✓	✓	Latch	Recovery	✓	VQFN040V6060
BD9F800MUX	30	8	4.5 to 28.0	0.765 to 13.5*1	0.3, 0.6	850	On-time	✓	—	✓	—	Recovery	Recovery	—	VQFN11X3535A

双输出 降压型

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features					Package
								Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9151MUV	7	I _{O1} : 0.4 I _{O2} : 0.8	2.8 to 5.5	V _{O1} : 1.8 V _{O2} : 1.2	1	400	Current	✓	✓	Latch	Latch	—	VQFN020V4040
BD9152MUV	7	I _{O1} : 1.5 I _{O2} : 1.5	4.5 to 5.5	V _{O1} : 3.3 V _{O2} : 0.8 to 2.5	1	500	Current	✓	✓	Latch	Latch	—	VQFN020V4040
BD93291EFJ	30	I _{O1} : 2.5 I _{O2} : 1.5	8 to 26	V _{O1} : 5.0 V _{O2} : 0.8 to 4.0	1.5 to 2.5	600	H ³ Reg	✓	✓	Recovery	Recovery	—	HTSOP-J8
BD95830MUV	15.1	I _{O1} : 3.0 I _{O2} : 3.0	7.5 to 15	V _{O1} : 0.8 to 5.5 V _{O2} : 0.8 to 5.5	0.4 to 0.8	1,700	H ³ Reg	✓	—	Latch	Recovery	Latch	VQFN032V5050

*1 根据输入输出电压条件，会存在限制。

*2 最大输出电压限制为(V_{IN}×0.7)、(V_{IN}-5.0)中数值较小的一方。

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内置FET的开关稳压器(升压/升降压转换器)

单输出 升压/升降压转换器

Part No.	Input Voltage Maximum Rating (V)	Switch Current Limit (mA)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features								Package
								Boost	Buck-Boost	SEPIC	Inverting	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BU33DV5G	6	10	1.75 to 4.50	3.3	0.1	250	Current	✓	—	—	—	✓	—	Recovery	✓	SSOP5
BU33DV7NUX	7	300	1.8 to 5.5	3.3	0.6	25	Current	✓	—	—	—	✓	✓	Recovery	✓	VSON010V3030
BU34DV7NUX	7	300	1.8 to 5.5	3.4	0.6	25	Current	✓	—	—	—	✓	✓	Recovery	✓	VSON010V3030
BU33UV7NUX	6.5	500	0.6 to 4.5	3.3	0.8	7	Current	✓	—	—	—	✓	✓	Recovery	✓	VSON010X3020
BD8152FVM	7	1,400	2.5 to 5.5	V _{IN} to 14	0.6/1.2	1,200	Current	✓	✓	✓	—	—	—	Recovery	✓	MSOP8
BD8158FVM	7	1,400	2.1 to 4.0	V _{IN} to 14	0.6/1.2	1,200	Current	✓	✓	✓	—	—	—	Recovery	✓	MSOP8
BD83070GWL	6	2,000	2.0 to 5.5	2.5 or 3.3	1.5	2.8	Current	—	✓	—	—	✓	✓	Recovery	✓	UCSP50L1C
BD8306MUV	7	2,000	1.8 to 5.5	1.8 to 5.2	0.3 to 2.0	500	Voltage	✓	✓	—	—	✓	—	Latch	✓	VQFN016V3030
BD8311NUV	14	2,500	3.5 to 11.0	4 to 11	1.2	600	Voltage	✓	—	—	—	—	—	Latch	✓	VSON010V3030
BD8314NUV	14	2,500	3 to 12	4 to 12	1.2	600	Voltage	✓	—	—	—	—	—	Latch	✓	VSON010V3030

双输出 升压/升降压转换器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features								Package
							Boost	Buck-Boost	SEPIC	Inverting	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD8317GWL	7	2.5 to 5.5	V _{O1} : -9.0 to -1.0 V _{O2} : V _{IN} to 18	0.8	500	Current	✓	—	—	✓	—	—	Latch	✓	UCSP50L1
BD8316GWL	7	2.5 to 5.5	V _{O1} : -9.0 to -1.0 V _{O2} : V _{IN} to 18	1.6	500	Current	✓	—	—	✓	—	—	Latch	✓	UCSP50L1
BD83854GWL	7	2.5 to 4.5	±5.4	1.0/0.5	2,500	Current	✓	—	—	✓	✓	—	Latch	✓	UCSP50L1C
BD83854MUV	7	2.5 to 4.5	±5.4	1.0/0.5	2,500	Current	✓	—	—	✓	✓	—	Latch	✓	VQFN20PV3535

外置FET的开关稳压器(降压控制器)

单输出 降压控制器															
Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Supply Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9305AFVM	20	4.2 to 18.0	—	1.25 to V_{IN}^*	0.1 to 0.8	1,500	Voltage	—	—	—	—	—	SCP Latch	Recovery	MSOP8
BD95601MUV-LB	28	4.5 to 25.0	—	0.75 to 2.0	0.2 to 0.5	1,500	H ² Reg	✓	—	✓	✓	✓	Latch	Recovery	VQFN020V4040
BD63536FJ	32	3 to 30	—	1.25 to V_{IN}^*	0.01 to 0.3	2,000	Voltage	—	—	—	—	—	Recovery	Recovery	SOP-J8
BD9845FV	36	3.6 to 35.0	—	1.0 to V_{IN}^*	0.1 to 1.5	2,400	Voltage	—	—	✓	—	—	Recovery	Recovery	SSOP-B14
BD9611MUV	60	10 to 56	—	$(V_{IN} \times 0.02)$ to $(V_{IN} \times 0.97)$ $(V_{IN} \times 0.02) \geq 0.8^*$	0.05 to 0.50	2,000	Voltage	—	✓	✓	✓	—	Recovery	Recovery	VQFN020V4040
双输出 降压控制器															
Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Supply Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9536FV	16	7.5 to 15.0	—	0.7 to 5.5	0.2 to 0.6	1,600	H ² Reg	—	—	✓	✓	—	Latch	Recovery	SSOP-B28
BD9535MUV	30	3 to 28	4.5 to 5.5	0.7 to 2.0	0.2 to 0.6	1,400	H ² Reg	✓	—	✓	✓	✓	Latch	Recovery	VQFN032V5050
BD95602MUV-LB	30	5.5 to 28.0	—	1.0 to 5.5	0.15 to 0.50	250	H ² Reg	✓	—	✓	✓	✓	Latch	Recovery	VQFN032V5050
BD9848FV	36	3.6 to 35.0	—	1.0 to V_{IN}^*	0.1 to 1.5	3,000	Voltage	—	—	✓	—	—	Recovery	Recovery	SSOP-B20

*根据输入输出电压条件，会存在限制。

外置FET的开关稳压器(升压/升降压控制器)

单输出 升压/升降压控制器																	
Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features								Package		
							Boost	Buck-Boost	Inverting	Buck	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Over-Current Protection		Thermal Protection	
BD8303MUV	15	2.7 to 14.0	1 to 12	0.2 to 1.0	650	Voltage	—	✓	—	—	—	—	✓	Latch	Recovery	VQFN016V3030	
BD9306AFVM	20	4.2 to 18.0	V _{IN} to (V _{IN} /0.3)	0.1 to 0.8	1,500	Voltage	✓	—	—	—	—	—	—	Latch	Recovery	MSOP8	
BD9615MUV-LB	62	3.5 to 60.0	V _{IN} to (V _{IN} /0.2)	0.1 to 2.5	2,000	Voltage	✓	—	—	—	—	✓	✓	—	Recovery	Recovery	VQFN16KV3030

双输出 升压/升降压控制器																
Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features								Package	
							Boost	Buck-Boost	Inverting	Buck	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Over-Current Protection		Thermal Protection
BD9851EFV	20	4 to 18	1 or more	0.01 to 0.3	2,500	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	HTSSOP-B20
BA9743AFV	36	3.6 to 35.0	2.505 or more	0.01 to 0.8	1,600	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	SSOP-B16
BA9744FV	36	2.5 to 35.0	1.222 or more	0.01 to 0.8	3,900	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	SSOP-B16
BA9741F	36	3.6 to 35.0	2.5 or more	0.01 to 0.8	1,600	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	SOP16
BA9741FS	36	3.6 to 35.0	2.5 or more	0.01 to 0.8	1,600	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	SSOP-A16

支持车载的开关稳压器

单输出 初级 FET 内置 降压转换器																					
Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum				
BD9V100MUF-C	Nch (600mΩ)	Nch (400mΩ)	70	1	16 to 60	Adj. (0.8 to 5.5)	±2.0	2,500	1.9 to 2.3	Current	✓	—	—	✓	—	✓	—	-40 to +125	VQFN24FV4040	FSs	YES
BD9P105EFV-C	210mΩ	140mΩ	42	1.0	3.5 to 40	0.8 to 8.5	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	HTSSOP-B20	FSs	YES
BD9P105MUF-C	200mΩ	130mΩ	42	1.0	3.5 to 40	0.8 to 8.5	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	VQFN20FV4040	FSs	YES
BD9P135EFV-C	210mΩ	140mΩ	42	1.0	3.5 to 40	3.3	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	HTSSOP-B20	FSs	YES
BD9P135MUF-C	200mΩ	130mΩ	42	1.0	3.5 to 40	3.3	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	VQFN20FV4040	FSs	YES
BD9P155EFV-C	210mΩ	140mΩ	42	1.0	3.5 to 40	5	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	HTSSOP-B20	FSs	YES
BD9P155MUF-C	200mΩ	130mΩ	42	1.0	3.5 to 40	5	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	VQFN20FV4040	FSs	YES
BD90610EFJ-C	Pch (160mΩ)	—	42	1.25	3.5 to 36.0	Adj. (0.8 to V _{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	-40 to +125	HTSOP-J8	FSs	YES
BD8P250MUF-C	Nch (110mΩ)	Nch (110mΩ)	42	2	3.5 to 36.0	5.0	±2.0	8	2.2	Current	✓	—	—	✓	✓	✓	✓	-40 to +125	VQFN24FV4040	FSs	YES
BD9P205EFV-C	150mΩ	100mΩ	42	2.0	3.5 to 40	0.8 to 8.5	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	HTSSOP-B20	FSs	YES
BD9P205MUF-C	140mΩ	90mΩ	42	2.0	3.5 to 40	0.8 to 8.5	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	VQFN20FV4040	FSs	YES
BD9P235EFV-C	150mΩ	100mΩ	42	2.0	3.5 to 40	3.3	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	HTSSOP-B20	FSs	YES
BD9P235MUF-C	140mΩ	90mΩ	42	2.0	3.5 to 40	3.3	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	VQFN20FV4040	FSs	YES
BD9P255EFV-C	150mΩ	100mΩ	42	2.0	3.5 to 40	5	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	HTSSOP-B20	FSs	YES
BD9P255MUF-C	140mΩ	90mΩ	42	2.0	3.5 to 40	5	±1.75	10	2,200	Current	✓	✓	—	✓	✓	✓	✓	-40 to +125	VQFN20FV4040	FSs	YES
BD9P233MUF-C	Pch (190mΩ)	Nch (120mΩ)	42	2	3 to 36	3.3	±2.0	26	0.2 to 2.4	Current	✓	✓	✓	✓	✓	✓	✓	-40 to +125	VQFN32FAV050	FSs	YES
BD99010EFV-M	Pch (170mΩ)	Nch (130mΩ)	42	2	3.5 to 36.0	3.3	±2.0	22	0.2 to 0.5	Current	—	—	—	✓	✓	✓	—	-40 to +105	HTSSOP-B24	FSs	YES
BD99011EFV-M	Pch (170mΩ)	Nch (130mΩ)	42	2	3.5 to 36.0	5.0	±2.0	22	0.2 to 0.5	Current	—	—	—	✓	✓	✓	—	-40 to +105	HTSSOP-B24	FSs	YES
BD9060F-C	Pch (300mΩ)	—	42	2	5 to 35	Adj. (0.8 to V _{IN})	±2.0	3,700	0.05 to 0.5	Voltage	—	✓	—	—	—	—	—	-40 to +125	SOP8	FSs	YES
BD9060HFP-C	Pch (300mΩ)	—	42	2	5 to 35	Adj. (0.8 to V _{IN})	±2.0	3,700	0.05 to 0.5	Voltage	—	✓	—	—	—	—	—	-40 to +125	HRP7	FSs	YES
BD90620EFJ-C	Pch (160mΩ)	—	42	2.5	3.5 to 36.0	Adj. (0.8 to V _{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	-40 to +125	HTSOP-J8	FSs	YES
BD90620HFP-C	Pch (160mΩ)	—	42	2.5	3.5 to 36.0	Adj. (0.8 to V _{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	-40 to +125	HRP7	FSs	YES
BD90640EFJ-C	Pch (160mΩ)	—	42	4	3.5 to 36.0	Adj. (0.8 to V _{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	-40 to +125	HTSOP-J8	FSs	YES
BD90640HFP-C	Pch (160mΩ)	—	42	4	3.5 to 36.0	Adj. (0.8 to V _{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	-40 to +125	HRP7	FSs	YES

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*1 "ComfySIL™功能安全类别" 详情请参阅封二。

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单输出 次级 FET内置 降压转换器

Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Output Discharge				
BD9S000NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	Adj. (0.8 to V _{IN})	±1.5	350	2.2	Current	✓	—	✓	✓	—	✓	✓	-40 to +125	VSON008X2020	FSs	YES
BD9SD11NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	1.15	±1.5	400	2.2	Current	✓	—	✓	✓	—	✓	—	-40 to +125	VSON008X2020	—	YES
BD9S012NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	1.1	±1.5	350	2.2	Current	✓	—	✓	✓	—	✓	✓	-40 to +125	VSON008X2020	FSs	YES
BD9S100NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	Adj. (0.8 to V _{IN})	±1.5	350	2.2	Current	✓	—	✓	✓	—	✓	✓	-40 to +125	VSON008X2020	FSs	YES
BD9S110NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	1.2	±1.5	400	2.2	Current	✓	—	✓	✓	—	✓	✓	-40 to +125	VSON008X2020	FSs	YES
BD9S111NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	1.8	±1.5	400	2.2	Current	✓	—	✓	✓	—	✓	✓	-40 to +125	VSON008X2020	FSs	YES
BD9S201NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V _{IN})	±1.5	400	2.2	Current	✓	—	✓	✓	—	✓	✓	-40 to +125	VSON008X2020	FSs	YES
New BD9S231NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V _{IN})	±1.5	400	2.2	Current	✓	—	✓	✓	—	✓	—	-40 to +125	VSON008X2020	FSs	YES
BD9S200MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V _{IN} ×0.8)	±1.5	650	2.2	Current	✓	✓	✓	✓	✓	✓	—	-40 to +125	VQFN16FV3030	FSs	YES
BD9S300MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	3	2.7 to 5.5	Adj. (0.8 to V _{IN} ×0.8)	±1.5	650	2.2	Current	✓	✓	✓	✓	✓	✓	—	-40 to +125	VQFN16FV3030	FSs	YES
BD9S400MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	4	2.7 to 5.5	Adj. (0.8 to V _{IN} ×0.8)	±1.5	650	2.2	Current	✓	✓	✓	✓	✓	✓	—	-40 to +125	VQFN16FV3030	FSs	YES

单输出 初级 FET内置 升降压转换器(Quick Buck Booster™)

Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum				
BD8P250MUF-C + BD90302NUF-C	Nch (110mΩ)	Nch (110mΩ)	42	0.8	2.7 to 36	5.0	±2.0	8	2.2	Current	✓	—	—	✓	✓	✓	✓	-40 to +125	VQFN24FV4040	— + FSs	YES
	Pch (55mΩ)	Nch (65mΩ)	7					65											VSON10FV3030		YES

双输出 初级 FET外置 降压控制器

Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Operating Temperature (°C)	Package	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum			
BD9015KV-M	Ext. Nch	Ext. Nch	35	—	3.9 to 30.0	Adj. (0.8 to 10)	±1.5	4,000	0.25 to 0.55	Current	✓	✓	✓	✓	—	✓*2	—	-40 to +105	VQFP48C	YES
BD9016KV-M	Ext. Nch	Ext. Nch	35	—	3.9 to 30.0	Adj. (0.8 to 10)	±1.5	4,000	0.25 to 0.55	Current	✓	✓	✓	✓	—	✓*3	—	-40 to +105	VQFP48C	YES

单输出 初级 FET外置 升降压控制器

Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum				
BD9035AEFV-C	Ext. Pch	Ext. Nch	40	—	3.8 to 30.0	Adj.	±1.5	7,000	0.1 to 0.6	Voltage	✓	✓	✓	—	—	✓	—	-40 to +125	HTSSOP-B24	FSs	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

*2 过电压检测时下侧FET OFF

*3 过电压检测时下侧FET ON

开关稳压器(系统电源)

车载音响用系统电源	P.50	面板用系统电源	P.50
灰度等级电压生成IC	P.51	数码相机/数码摄像机用系统电源	P.51
车载系统电源	P.51	工业设备/消费电子用系统电源	P.52

开关稳压器(系统电源)

车载音响用系统电源

汽车音响用系统电源IC

Part No.	Supply Voltage (V)	Function					Input I/F	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100	
				Reference Voltage (V)	Output Current (A)	Protection Circuit					
						Over Current					Temperature
BD49101AEFS-M*2/ BD49101ARFS-M*3	5.5 to 25.0	Buck DC/DC1	Controller	0.8	—	Current Limit with Short Current Protection Circuit	✓	I²C	HTSSOP-A44 (EXP-PAD down HTSSOP-A44 package) HTSSOP-A44R (EXP-PAD up HTSSOP-A44R package)	FSs/FSs	YES
		Buck DC/DC2	Low Power Standby REG	0.8	1.0						
		REG1	Secondly	0.6	0.5	Foldback					
		REG2	—	0.8	0.1						
		REG3	Secondly	0.8	0.3						
		REG4	Secondly, Voltage Calibration	0.8	1.5 (Variable)						
		REG5	—	0.8	0.1						
		High Side Switch	—	—	0.5						
		+B Detection Circuit	Over/Under Current Detection	—	—	—					

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*1 “ComfySIL™功能安全类别” 详情请参阅封二。

*2 BD49101AEFS-M：背面散热型HTSSOP-A44封装

*3 BD49101ARFS-M：表面散热型HTSSOP-A44R封装

面板用系统电源

单通道源极电压输出电源IC + 灰阶缓冲放大器

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Operating Frequency (MHz)	Output for Source Voltage (V)	V COM (ch)	Buffer for Gamma (ch)	Package
BD8157EFV	2.1 to 4.0	-40 to +125	0.6/1.2	up to 14	1	4	HTSSOP-B20

面向中小型面板的多通道系统电源IC

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Operating Frequency (MHz)	Output for Source Voltage (V)	Output for Logic Voltage (V)	Output for Gate Voltage (V)	Start up Sequence Circuit	V COM (ch)	Package
BD8153EFV	2.1 to 6.0	-40 to +125	1.1	up to 18.0	3.3	Variable	✓	—	HTSSOP-B24
BD8163EFV	2.1 to 6.0	-40 to +125	1.1	up to 18.0	2.5	Variable	✓	—	HTSSOP-B24
BD8179MUV	2.6 to 5.5	-40 to +85	1.2	up to 19.0	—	Variable	✓	1 (Buffer 4ch)	VQFN032V5050
BD9862MUV	1.8 to 5.5	-40 to +85	0.7 to 1.4	up to 15.0	—	Variable	✓	—	VQFN024V4040
BM81028AMWV	2.5 to 5.5	-40 to +85	0.6/1.2	8.0 to 14.5 0.1V step	1.1 to 1.3 50mV step 1.7 to 1.9/2.4 to 2.6 50mV step	13 to 26 0.2V step/ -4.0 to -9.3 0.1V step	✓	1	UQFN28V4040A

面向大型面板的多通道系统电源IC

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Operating Frequency (MHz)	Output for Source Voltage (V)	Output for Logic Voltage 1	Output for Logic Voltage 2	Output for Gate Voltage	Start up Sequence Circuit	V COM (ch)	Package
BD8166EFV	6.0 to 18.0	-40 to +85	0.5	up to 18.0	Variable	—	Variable	✓	1	HTSSOP-B40
BD8160AEFV	8.0 to 18.0	-40 to +85	0.5/0.75	up to 18.0	Variable	—	Variable	✓	—	HTSSOP-B28
BD8165MUV	4.2 to 14.0	-40 to +105	0.65	up to 18.0	Variable	Variable	Variable	✓	1	VQFN048V7070
BM81100MUW	7.6 to 14.0	-40 to +85	0.75	up to 19.8	Variable	—	Variable	✓	1	VQFN40W6060A
BM81110MUW	8.6 to 14.7	-40 to +85	0.75/1.0	up to 19.8	Variable	Variable	Variable	✓	—	VQFN40W6060A
BM81004MUV	8.6 to 14.0	-40 to +105	0.75/1.0	up to 18.0	Variable	Variable	Variable	✓	1	VQFN48V7070A

车载面板用系统电源IC

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Operating Frequency (MHz)	Output for Source Voltage1 (V)	Output for Source Voltage2 (V)	Output for Logic Voltage (V)	Output for Gate Voltage (V)	Start up Sequence Circuit	V COM (ch)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD81842MUV-M	2.0 to 5.5	-40 to +105	2.1	up to 18.0	—	—	Variable	✓	1	VQFN24SV4040	FSs	YES
BD81810MUV-M	2.6 to 5.5	-40 to +105	0.525/1.05/2.1	5.0 to 17.0 0.1V step	—	0.9 to 3.4 50mV step	8.0 to 35.0 0.2V step/ -14.0 to -4.0 0.1V step	✓	1	VQFN32SV5050	FSs	YES
BD81810MUF-M*2										VQFN32FBV050	FSs	
BD81870EFV-M	2.5 to 5.5	-40 to +105	2.1	up to 18.0	V _{DD} -13.0 to -1.0	—	—	✓	—	HTSSOP-B20	FSs	YES
BD81870MUF-M										VQFN20FV3535	FSs	

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*1 “ComfySIL™功能安全类别” 详情请参阅封二。

*2 BM81810MUF-M与BM81810MUV-M的区别在于BM81810MUF-M支持Wettable flank。

灰度等级电压生成IC

内置DAC的高精度灰度电压生成IC

Part No.	Supply Voltage (V)		Operating Temperature (°C)	Clock Frequency (MHz)	DAC (bit)	Serial I/F	Auto Data Read	V COM (ch)	Buffer for Gamma (ch)	Package
	Gamma Collection Input	Logic								
BD8132FV	6 to 18	2.3 to 4.0	-30 to +85	5.0	10	3Wire	Built-in	1	18	SSOP-B40
BD8139AEFV	6 to 18	2.3 to 4.0	-30 to +85	0.4	10	I ² C BUS	Built-in	1	10	HTSSOP-B40
BD8143MUV	8 to 18	2.3 to 5.5	-40 to +105	2.0	10	3Wire	—	—	12	VQFN032V5050
BD81010MUV	8 to 18	2.1 to 3.6	-40 to +85	0.4	10	I ² C BUS	—	1	14	VQFN032V5050
BD8149MUV	10 to 18	2.1 to 3.6	-25 to +85	0.4	10	I ² C BUS	Built-in	—	12	VQFN032V5050
BD81026MUV	8 to 18	2.1 to 3.6	-25 to +85	0.4	10	I ² C BUS	—	—	12	VQFN024V4040

车载面板用内置DAC的高精度灰度电压生成IC

Part No.	Supply Voltage (V)		Operating Temperature (°C)	Clock Frequency (MHz)	DAC (bit)	Serial I/F	Auto Data Read	V COM (ch)	Buffer for Gamma (ch)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Gamma Collection Input	Logic										
BD81849MUV-C	10 to 18	2.1 to 3.6	-40 to +105	0.4	10	I ² C BUS	Built-in	—	12	VQFN32SV5050	FSs	YES

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

数码相机/数码摄像机用系统电源

FET内置型(5V耐压)系统开关稳压器IC

Part No.	ch	Operating Frequency (MHz)	Supply Voltage (V)	Reference Voltage (V)	Reference Voltage Precision (%)	Topology					Built-in FET (ch)	Synchronous Rectifier (ch)	Load Switch (ch)	Package
						Step up (ch)	Step Down (ch)	Step up/down (ch)	Inverting (ch)	Buck-Boost (ch)				
BD9639MWV	6	0.5 to 2.0	2.5 to 5.5	0.4	±2.5	2	2	—	—	2	6	5	1	UQFN056V7070
BD9355MWV	7	2.0/1.0	1.5 to 5.5	0.8	±1.25	3	2	—	1	1	7	3	1	UQFN036V5050
				1.0	±1.0									
BD9757MWV	8	1.2	1.5 to 5.5	1.0	±1.0	3	4	—	1	—	7	5	2	UQFN044V6060
				0.8	±1.25									

数码摄像机/数码单反相机用系统开关稳压器IC

Part No.	ch	Operating Frequency (MHz)	Supply Voltage (V)	Reference Voltage (V)	Reference Voltage Precision (%)	Step up (ch)	Step Down (ch)	Buck-Boost (ch)	Inverting/Stepdown (ch)	Built-in FET (ch)	Synchronous Rectifier (ch)	Load Switch (ch)	Package (mm)
BD9865MWV	4	0.6 to 1.5	4 to 14	1.0	±1.0	—	2	1	1	4	3	—	UQFN040V5050
				0.8	±1.25								
BD9866GUL	4	0.6 to 1.5	4 to 14	0.6	±1.66	—	3	1	—	4	4	—	VCSP50L3 3.75×3.75, H=Max 0.55
				0.8	±1.25								
BD8355MWV	7	0.5 to 1.8	4 to 10	0.8	±1.25	1	6	—	—	7	6	—	UQFN056V7070
				1.0	±1.0								

闪光灯充电控制IC

Part No.	Supply Voltage (V _{CC}) (V)	Peak Current (A)	Full Charge Detection Voltage (V)	100nsec pulse AC Full Charge Detection Voltage (V)	Full Terminal Output	Power Transistor Saturation Voltage I _{DS} =1A (V)	IGBTOUTN (mA)	IGBTOUTP (mA)	Package
BD4233NUX	2.5 to 5.5	0.5 to 2.0	1±1.1%	1.0~1.1% to ±1.6%	Nch Open drain	0.4	60	140	VSON010X3020
BD4234NUX	2.5 to 5.5	0.5 to 2.0	1±1.1%	1.0~1.1% to ±1.6%	Nch Open drain	0.4	30	140	VSON010X3020

备用电池切换IC

Part No.	Input Voltage (V)		Output Voltage (V)		Input Detection Voltage (V)		Output Detection Voltage (V)		Switching Voltage (V)	Unreg Reset Voltage (V)		Package
	V _{IN}	V _{RO}	V _{OUT}	V _{DET1}	+V _{DET1}	-V _{DET2}	+V _{DET2}	V _{SW1}		-V _{DET3} (V _{DETSEL=L})	-V _{DET4} (V _{DETSEL=H})	
BD7212MUV	3.50 to 6.00	3.2	3.2	3.5	3.6	2.10	2.23	3.06	1.5	2.5	—	VQFN016V3030
BD7213MUV	3.50 to 8.00	3.2	3.2	3.3	3.4	2.05	2.14	2.89	1.5	2.5	—	VQFN016V3030
BD7214MUV	3.50 to 8.00	3.2	3.2	3.3	3.4	2.05	2.14	2.89	—	—	—	VQFN016V3030

车载系统电源

2ch车载系统电源

Part No.	Supply Voltage (V)	Operating Frequency (kHz)	Operating Temperature (°C)	Sequence	Output Voltage Precision (%)	Output		Function					Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
						ch	V _{OUT} /Max I _{OUT}	Over Current Protection	TSD	Under/Over Voltage Detection	Reset	WDT			
BD39012EFV-C	4 to 36 (Rating 45V)	200 to 600	-40 to +125	External Control EN1: DC/DC EN2: LDO	±2	1ch (DC/DC)	Synchronous Buck DC/DC Converter (V _{OUT} variable, 1A)	✓	✓	✓	—	WINDOW WDT	HTSSOP-B24	FSs	YES
						2ch (LDO)	LDO (5V, 0.4A)				✓	—			

3ch 车载系统电源(ADAS用)

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Operating Temperature (°C)	Output Voltage Precision (%)	DC/DC Output			Function				Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					Item	DC/DC1 Buck	DC/DC2 Buck	DC/DC3 Buck	Reset	Power Good	External LDO CTRL				
BD86852MUF-C	4 to 18	2.2	-40 to +125	2	Output Voltage (V)	3.3 or 3.9	1.1 or 1.2	1.8	✓	✓	✓	OVP OCP UVLO TSD	VQFN24FV4040	FSs	YES
					Output Current (A)	2	1	1							

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

车载系统电源

4ch 车载系统电源(ADAS用)																
Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Operating Temperature (°C)	Output Voltage Precision (%)	DC/DC Output							Protection Circuit	Package	Automotive Grade AEC-Q100		
					Item	DC/DC1 Buck	DC/DC2 Buck	DC/DC3 Buck	DC/DC4 Boost	Reset	WDT					
BD39031MUF-C	4 to 28	2.2	-40 to +125	±1.5 (DC/DC4 ±2.0)	Output Voltage (V)	3.3	1.2	0.8 to 2.5	5	✓	WINDOW WDT	OVP, OCP, SCP, TSD, T-Warning	VQFN40FV6060	YES		
					Output Current (A)	Ext.FET	2.5	2.5	0.5							

通用车载系统电源(支持Renesas [R-Car] SoC系列)																		
Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Output Voltage Precision (%)	Item	DC/DC Output				LDO	DC (SW)	Reset	WDT	Monitoring Function	Protection Circuit	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					DC/DC1 Boost	DC/DC2 Buck	DC/DC3 Buck	DC/DC4 Buck										
BD9573MUF-M	3 to 3.6	2.25	±1.8	Output Voltage (V)	5	1.8	1.35 or 1.5	1.03	2.5	VIN7	✓	WINDOW WDT	—	UVLO, SCP, OCP, OVP, UVP, TSD	-40 to +105	VQFN56FV8080	FSs	YES
				Output Current (A)	0.2	1	2	5.2	0.15	0.3								
BD9576MUF-C	3 to 3.6	2.25	±1.8	Output Voltage (V)	5	1.8	1.35 or 1.5	1.03	2.5	VIN7	✓	WINDOW WDT	OVD/UVD TW	UVLO, SCP, OCP, OVP, UVP, TSD	-40 to +125	VQFN56FV8080	FSm	YES
				Output Current (A)	0.2	1	2	5.2	0.15	0.3								

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 *1 “ComfySIL™功能安全类别”的详情请参阅封二。

工业设备/消费电子用系统电源

Intel® Atom™ E3800系列平台用电源管理IC																											
Part No.	Supply Voltage (V)	Item	DC/DC Output							SW	LDO output								I/F	Protection Circuit	Package (mm)						
			DC/DC1 V1P0A	DC/DC2 V1P0S	DC/DC3 V1P8A	DC/DC4 VDDQ	DC/DC5 V1P0S5	DC/DC6 VCC	DC/DC7 VNN		V1P8S	LDO1 VRTC	LDO2 V3P3A	LDO3 V3P3S	LDO4 V1P24A	LDO5 VSDIO	LDO6 V1P24S	LDO7 VTT				LDO8 VSFR					
BD9596BMWV	3.5 to 5.5	Output Voltage (V)	1.0	1.0	1.8	1.2 to 1.6	1.05	0.5 to 1.2	0.5 to 1.2	1.8	3.3	3.3	3.3	1.24	1.8 or 3.3	1.24	VDDQ/2	1.35	IMVP7	UVLO, TSD, SCP, OVP	UQFN88MV0100 10x10x1.0						
		Output Current (mA)	700	2,600	1,800	4,500	1,300	13,000	13,000	800	120	100	500	50	20	50	530	500									
NXP “i.MX应用处理器系列” 用电源管理IC																											
Part No.	Correspondance	Item	DC/DC Output							LDO Output								White LED Driver	Lithium Charging Control	Coulomb Counter	RTC	GPO (ch)	I²C I/F	Package			
			BUCK1	BUCK2	BUCK3	BUCK4	BUCK5	BUCK6	BUCK7	BUCK8	LDO1	LDO2	LDO3	LDO4	LDO5	LDO6	LDO7								LDOSNVS	LDOLPSR	LDODVREF
BD71815AGW	i.MX 7Solo i.MX 7Dual	Output Voltage (V)	0.8 to 2.0	0.8 to 2.0	1.2 to 2.7	1.1 to 1.85	1.8 to 3.3	—	—	—	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	—	—	3	1.8	0.5x DVREFIN	✓	✓	✓	✓	1	✓	UCSP55M4C
		Output Current (mA)	800	1,000	500	1,000	1,000	—	—	—	100	100	50	400	250	—	—	25	100	10	—	—	—	—	—	—	—
BD71837MWV	i.MX 8M Quad/ QuadLite/ Dual	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.35	3.0 to 3.3	1.8 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	—	—	—	—	—	—	—	—	✓	UQFN68CV8080
		Output Current (mA)	3,600	4,000	2,100	1,000	2,500	3,000	1,500	3,000	10	10	300	250	300	300	150	—	—	—	—	—	—	—	—	—	—
BD71837AMWV	System PMIC for i.MX 8M Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.35	3.0 to 3.3	1.8 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	—	—	—	—	—	—	—	—	✓	UQFN068CV8080
		Output Current (mA)	3,600	4,000	2,100	1,000	2,500	3,000	1,500	3,000	10	10	300	250	300	300	150	—	—	—	—	—	—	—	—	—	—
BD71847AMWV	System PMIC for i.MX 8M Mini Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	—	—	0.7 to 1.35	2.6 to 3.3	1.8 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	0.9 to 1.8	—	—	—	—	—	—	—	—	—	✓	UQFN56BV7070
		Output Current (mA)	3,000	3,000	—	—	3,000	3,000	1,500	3,000	10	10	300	250	300	300	—	—	—	—	—	—	—	—	—	—	—
BD71850MWV	System PMIC for i.MX 8M Nano Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	—	—	0.7 to 1.35	2.6 to 3.3	1.8 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	0.9 to 1.8	—	—	—	—	—	—	—	—	—	✓	UQFN56BV7070
		Output Current (mA)	3,000	3,000	—	—	3,000	3,000	1,500	3,000	10	10	300	250	300	300	—	—	—	—	—	—	—	—	—	—	—

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非绝缘型 AC/DC控制器IC

表面贴装SOP封装 内置650V耐压FET																				
Part No.	Output Voltage (V)	MOSFET V _{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency reduction function	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over Current Protection (A)	Start-up Current (mA)	Package									
BM2P109TF	10.0	650	PWM	100	✓	75	9.5	0.45	1.4	3	SOP8									
BM2P104QF					—		4.0	0.80	1.6		SOP8									
BM2P129TF	12.0				✓		9.5	0.45	1.4		SOP8									
BM2P139TF							4.5				SOP8									
BM2P135TF	13.0				—		4.0	0.80	1.6		SOP8									
BM2P134QF							0.30	0.95	SOP8											
BM2P159PF	14.2				✓		9.5	0.45	1.4		SOP8									
BM2P159T1F	15.0										SOP8									
BM2P189TF	18.0										SOP8									
BM2P209TF	20.0										SOP8									
BM2P249TF	24.8										SOP8									
表面贴装SOP封装 内置800V耐压FET																				
Part No.	Output Voltage (V)										MOSFET V _{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency reduction function	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over Current Protection (A)	Start-up Current (mA)	Package
BM2P107QKF	10.0	800	PWM	100	—	75	7.5	0.80	1.6	3	SOP8									
BM2P137TKF	13.0				✓			0.45	1.4		SOP8									
BM2P137QKF					—			0.80	1.6		SOP8									

高散热DIP封装 内置650V耐压FET

	Part No.	Output Voltage (V)	MOSFET V _{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over Current Protection (A)	Start-up Current (mA)	Package	
New	BM2P101W-Z	10.0	650	PWM	65	✓	40	1.5	1.46	2.55	3	DIP7K	
	BM2P101X-Z									2.00		3.5	DIP7K
	BM2P104Q-Z				100	—	75	4.0	0.80	1.6		DIP7K	
New	BM2P121W-Z	12.0			65	✓	40	1.5	1.5	1.46		2.55	DIP7K
	BM2P121X-Z									2.00		3.5	DIP7K
	BM2P121XH-Z*									2.00		3.5	DIP7K
New	BM2P131W-Z	13.0			100	—	75	4.0	1.5	1.46		2.55	DIP7K
	BM2P131X-Z									2.00		3.5	DIP7K
	BM2P134Q-Z									0.80		1.6	DIP7K
New	BM2P141W-Z	14.0			65	✓	40	1.5	1.5	1.46		2.55	DIP7K
	BM2P141X-Z									2.00		3.5	DIP7K
New	BM2P151W-Z	15.0			65	✓	40	1.9	1.5	1.46		2.55	DIP7K
	BM2P151X-Z									2.00		3.5	DIP7K
	BM2P151S-Z									2.30		4.025	DIP7K
	BM2P161W-Z	16.8			65	✓	40	1.5	1.5	1.46		4.015	DIP7K
	BM2P161X-Z									2.00		3.5	DIP7K
New	BM2P181W-Z	18.0			65	✓	40	1.5	1.5	1.46		2.55	DIP7K
	BM2P181X-Z									2.00		3.5	DIP7K
New	BM2P201W-Z	20.0			65	✓	40	1.5	1.5	1.46		2.55	DIP7K
	BM2P201X-Z									2.00		3.5	DIP7K
New	BM2P241W-Z	24.8			65	✓	40	1.5	1.5	1.46		2.55	DIP7K
	BM2P241X-Z									2.00		3.5	DIP7K
	BM2P249Q-Z									100		—	9.5

*TSD温度变更

高散热DIP封装 内置800V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over Current Protection (A)	Start-up Current (mA)	Package
BM2P107QK-Z	10.0	800	PWM	100	—	75	7.5	0.80	1.6	3	DIP7K
BM2P137QK-Z	13.0										DIP7K

绝缘/非绝缘型 AC/DC转换器

表面贴装SOP封装 内置730V耐压FET

	Part No.	Output Voltage (V)	MOSFET V _{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V _{CC} OVP	Package
New	BM2P064EF	8.9 to 26.0	730	PWM	65	✓	75	3.0	4.0	1.05	0.4	Extrenal	3.0	✓	—	Auto Restart	SOP8
New	BM2P104EF				100						0.3						SOP8
New	BM2P134EF				130						0.4						SOP8
	BM2P0363F									25	—						
New	BM2P060MF-Z	11 to 60			65	✓		0.7	21.0	✓	✓		15	✓		—	SOP20A
New	BM2P061MF-Z							1.0	12.0								SOP20A
New	BM2P063MF-Z							3.0	4.0								SOP20A

表面贴装SOP封装 内置800V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0363KF	8.9 to 26.0	800	PWM	25	—	75	3.0	—	0.7	0.4	Extrenal	3.0	—	—	Auto Restart	SOP8
BM2P074KF	10.2 to 26.0			65	✓		6.7	2.0	—							SOP8

高散热DIP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0391	8.9 to 26.0	650	PWM	100	✓	75	2.4	5.2	—	0.4	Extrenal	6	✓ (adjustable)	—	Auto Restart	DIP7K

高散热DIP封装 内置730V耐压FET

	Part No.	Output Voltage (V)	MOSFET V _{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V _{CC} OVP	Package
New	BM2P061E-Z	8.9 to 26.0	730	PWM	65	✓	75	0.955	12.0	1.0	0.4	Extrenal	5.5	✓ (adjustable)	—	Auto Restart	DIP7AK
	BM2P061H-Z	10.9 to 30.0						Auto Restart					DIP7AK				
	BM2P0151-Z	8.9 to 26.0						1.0	—	3.0			—	Auto Restart	Latch	DIP7K	
BM2P0161-Z	4.0							DIP7K									
BM2P0361-Z	—							DIP7K									
BM2P0362-Z	4.0							DIP7AK									
BM2P064E-Z	0.955							12.0			1.0	0.3				5.5	✓ (adjustable)
BM2P101E-Z	100	3.0						4.0	DIP7AK								
BM2P101H-Z		10.9 to 30.0						0.955	12.0	DIP7AK							
BM2P104E-Z	130	3.0						4.0	DIP7AK								
BM2P131E-Z		0.955						12.0	DIP7AK								
BM2P131H-Z		10.9 to 30.0						3.0	4.0	DIP7AK							
BM2P134E-Z		8.9 to 26.0						3.0	4.0	DIP7AK							

高散热DIP封装 内置800V耐压FET

	Part No.	Output Voltage (V)	MOSFET V _{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V _{CC} OVP	Package	
New	BM2P0161K-Z	8.9 to 26.0	800	PWM	✓		75	1.6	9.0	—	0.4V	Extrenal	3.0	—	—	Auto Restart	DIP7K	
	BM2P0361K-Z							3.5	4.8								DIP7K	
BM2P061EK-LBZ	1.6	20.0						1V	✓ (adjustable)	DIP7AK								
BM2P061FK-LBZ		9.0								DIP7AK								
BM2P061HK-LBZ	3.5	4.8						1.05V	✓	DIP7AK								
BM2P063EK-LBZ	20.0	1V						0.3V		✓ (adjustable)			DIP7AK					
BM2P101EK-LBZ	1.6	9.0						1V	0.3V	✓ (adjustable)	—		DIP7AK					
BM2P101FK-LBZ		3.5						4.8	1.05V				0.4V	✓	DIP7AK			
BM2P101HK-LBZ	10.9 to 26.0	100						130	1.6	9.0	1V		0.3V	✓ (adjustable)	—		DIP7AK	
BM2P103EK-LBZ	10.9 to 30.0																3.5	4.8
BM2P131FK-LBZ	10.9 to 26.0	130						1.6	9.0	1V	0.3V		✓ (adjustable)	—	DIP7AK			
BM2P131HK-LBZ	10.9 to 30.0														3.5		4.8	1.05V
BM2P133EK-LBZ	10.9 to 26.0	100						6.0	3.0	Current Limiter x2A	0.13A		Built-in	✓ (fixed)	—		Latch	DIP7K
BM2P26CK-Z	11.9 to 25.5																	

大功率TO220封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (A)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0163T-Z	8.9 to 26.0	650	PWM	65	✓	75	1.4	10.4	—	0.4	Extrenal	5.0	—	—	Auto Restart	TO220-7M

绝缘型 AC/DC转换器IC

内置FET AC/DC转换器IC

表面贴装SOP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V _{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (A)	Overcurrent Limiter (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V _{CC} OVP	Package										
BM2P051F	8.9 to 26.0	650	PWM	65	✓	75	4.0	2.6	—	0.4	Extrenal	3.0	✓ (adjustable)	Auto Restart	Latch	SOP8										
BM2P052F															Auto Restart	SOP8										
BM2P053F															—	—	Latch	SOP8								
BM2P054F															—	—	Auto Restart	SOP8								
BM2P091F															—	—	Latch	SOP8								
BM2P092F							8.5	1.3					—	—	—	—	—	—	—	—	✓ (adjustable)	Auto Restart	Auto Restart	SOP8		
BM2P093F																							Latch	SOP8		
BM2P094F																							—	—	Auto Restart	SOP8
BM2P095F																							—	—	Latch	SOP8
BM2PA96F																							—	—	Auto Restart	SOP8

高散热DIP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V _{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Mode	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over Current Protection (A)	Overcurrent Limiter (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V _{CC} OVP	Package
BM2P011	8.9 to 26.0	650	PWM	65	✓	75	1.4	10.4	—	0.4	Extrenal	3	✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P012															Auto Restart	DIP7K
BM2P013													—	—	Latch	DIP7K
BM2P014							Auto Restart	DIP7K								
BM2P031							✓ (adjustable)	Auto Restart					Latch	DIP7K		
BM2P032													Auto Restart	DIP7K		
BM2P033													—	—	Latch	DIP7K
BM2P034							Auto Restart	DIP7K								
BM2P051							✓ (adjustable)	Auto Restart							Latch	DIP7K
BM2P052													Auto Restart	DIP7K		
BM2P053													—	—	Latch	DIP7K
BM2P054							Auto Restart	DIP7K								
BM2P091							✓ (adjustable)	Auto Restart					Latch	DIP7K		
BM2P092													Auto Restart	DIP7K		
BM2P093													—	—	Latch	DIP7K
BM2P094															Auto Restart	DIP7K

内置SiC MOSFET的AC/DC转换器IC

大功率TO220封装 内置1,700V耐压SiC MOSFET

Part No.	Output Voltage (V)	SiC MOSFET V _{DS} (Max) (V)	Control Method	Maximum Frequency (kHz)	ON Resistance (Ω)	Dynamic Over Current Protection (A)	OCP Exchange Function	V _{CC} OVP	BR UVLO	FB OLP Protection	ZT OVP Protection	Package
BM2SCQ121T-LBZ	15 to 27.5	1,700	QR	120	1.12	—	✓	Latch	—	Auto Restart	Latch	TO220-6M
BM2SCQ122T-LBZ								Latch		Latch		TO220-6M
BM2SCQ123T-LBZ								Auto Restart		Auto Restart		TO220-6M
BM2SCQ124T-LBZ								Auto Restart		Latch		TO220-6M

大功率TO263封装 内置1,700V耐压SiC MOSFET

Part No.	Output Voltage (V)	SiC MOSFET V _{DS} (Max) (V)	Control Method	Maximum Frequency (kHz)	ON Resistance (Ω)	Dynamic Over Current Protection (A)	OCP Exchange Function	V _{CC} OVP	BR UVLO	FB OLP Protection	ZT OVP Protection	Package
New BM2SC121FP2-LBZ	15 to 27.5	1,700	QR	120	1.12	—	✓	Latch	—	Auto Restart	Latch	TO263-7L
New BM2SC122FP2-LBZ								Latch		Latch		TO263-7L
New BM2SC123FP2-LBZ								Auto Restart		Auto Restart		TO263-7L
New BM2SC124FP2-LBZ								Auto Restart		Latch		TO263-7L

绝缘型 FET外置 AC/DC控制器IC

PWM控制型

Part No.	Output Voltage (V)	Control Method	Switching Frequency (kHz)	START-UP Circuit	Frequency Reduction Mode	Max Duty (%)	AC Voltage Correction	V _{CC} Recharge	Start-up Current (mA)	BR UVLO	V _{CC} OVP	FBOLP	Package
BM1P061FJ	8.9 to 26.0	PWM	65	✓	✓	75	✓	✓	3.0	✓	Auto Restart	Auto Restart	SOP-J8
BM1P062FJ											Latch		SOP-J8
BM1P065FJ											Auto Restart		SOP-J8
BM1P066FJ											Latch		SOP-J8
BM1P067FJ											Auto Restart		SOP-J8
BM1P068FJ											Latch		SOP-J8
BM1P101FJ			100	✓	✓	75	✓	✓	Auto Restart	SOP-J8			
BM1P102FJ									Latch	SOP-J8			
BM1P105FJ									Auto Restart	SOP-J8			
BM1P107FJ									Auto Restart	SOP-J8			
BM1P10CFJ	9.3 to 55.0							✓	5.5	✓	—		SOP-J7S
BD7672BG	8.5 to 25.0		65	—	—	—	—	—	—	—	Latch		SSOP6
BD7673AG													SSOP6
BD7679G													Auto Restart

QR控制型

Part No.	Output Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	Maximum Frequency (kHz)	Frequency Reduction Mode	AC Voltage Correction	FB OLP Protection	V _{CC} OVP	ZT OVP	Package
BM1Q002FJ	8.9 to 26.0	QR	✓	3.0	120	✓	✓	Auto Restart	Latch	Latch	SOP-J8
BM1Q011FJ									Auto Restart	—	SOP-J7S
BM1Q021FJ									Auto Restart	Auto Restart	SOP-J8
BM1Q104FJ	14.0 to 30.0	—	—	—	—	—	—	—	—	Latch	SOP-J8

QR控制型 支持SiC驱动

Part No.	Output Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	Maximum Frequency (kHz)	Frequency Reduction Mode	AC Voltage Correction	FB OLP Protection	V _{CC} OVP	ZT OVP	Package
BD7682FJ-LB	15.0 to 27.5	QR	—	—	120	✓	✓	Auto Restart	Latch	Latch	SOP-J8
BD7683FJ-LB								Latch			SOP-J8
BD7684FJ-LB								Auto Restart	Auto Restart		SOP-J8
BD7685FJ-LB								Latch			SOP-J8

QR控制型 + PFC内置型

Part No.	Output Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	QR Maximum Frequency (kHz)	PFC Maximum Frequency (kHz)	QR Frequency Reduction	PFC Frequency Reduction	PFC Output Voltage Switching	BR UVLO	V _{CC} OVP	ZT OVP	Package
BM1C101F	8.9 to 26.0	PFC+QR	✓	6.5	120	400	✓	✓	✓	✓	Auto Restart	Latch	SOP18
BM1C102F									—				SOP18

BCM型 PFC控制器IC

单级PFC

Part No.	Output Voltage (V)	Control Method	START-UP Circuit	Zero Detection Method	OVP Detection	PFC Maximum Frequency (kHz)	Over Shoot Reduction Function	Brown Out	V _{CC} Discharge	Package
BD7690FJ	10.0 to 26.0	BCMPFC	—	Auxiliary Winding	Single	220	—	—	—	SOP-J8
BD7691FJ				Resistance	Double					SOP-J8
BD7692FJ				—	—	450				SOP-J8
New BD7693FJ	10.0 to 38.0	—	—	Auxiliary Winding	Single	—	✓	—	—	SOP-J8
New BD7694FJ										SOP-J8

AC电压过零检测IC

AC电压过零检测IC											
Part No.	Output Voltage (V)	Maximum AC Input Voltage (V)	DC Voltage Monitor Function	Zero Cross Delay Time (μs)	Output Waveform	Stand by Current (μA)	Quiescent Current (μ)	Output Type	Protection Circuit	Operating Temperature (°C)	Package
New BM1Z012FJ	10 to 28	600	—	Variable	Pulse	50	160	Nch Open Drain	TSD/UVLO	-40 to +105	SOP-J7S
BM1Z001FJ				300 to 500							SOP-J7S
BM1Z002FJ				Variable	Edge						SOP-J7S
BM1Z003FJ			✓	300 to 500	Pulse						SOP-J7S
BM1Z101FJ				Variable	Edge						SOP-J11
BM1Z102FJ				Variable	Edge						SOP-J11
BM1Z103FJ				Variable	Edge						SOP-J11

二次侧同步整流IC

二次侧同步整流IC									
Part No.	Output Voltage (V)	Control Method	Shunt Regulator Accuracy (%)	Drain Terminal Maximum Voltage (V)	Compulsion OFF Time (μs)	V _{CC} OVP	Auto Sleep Function	CCM Mode	Package
BM1R00146F	2.7 to 32.0	SR	±0.5	120	1.3	Auto Restart	✓	✓	SOP8
BM1R00147F					2.0				SOP8
BM1R00148F					3.0				SOP8
BM1R00149F					3.6				SOP8
BM1R00150F					4.6				SOP8
BM1R00178F					3.0				SOP8
BD87007FJ					3.85				SOP-J8
BD85506F	5.0 to 32.0	SR for LLC	±1.0		—		✓	—	SOP14

绝缘型DC/DC转换器IC

绝缘型DC/DC转换器IC																					
Part No.	Output Power (W)	Input Voltage Maximum Rating (V)	Switch Current Limit (A)	Input Voltage (V)	Switching Frequency (kHz)	Control Method	Features						Package								
							Enable	Soft Start	Light-Load Efficiency	UVLO	Over Current Protection	Thermal Protection									
BD7F100EFJ-LB	1W at V _{IN} 5.0V	45	1.25	3.0 to 40.0	400	Adaptive on-time	✓	✓	✓	✓	Recovery	Recovery	HTSOP-J8								
BD7F100HFN-LB	5W at V _{IN} 24V												HSOP8								
BD7F200EFJ-LB	5W at V _{IN} 12V	45	2.75	8.0 to 40.0									HTSOP-J8								
BD7F200HFN-LB	10W at V _{IN} 24V												HSOP8								
☆BD7J201HFN-LB	5W at V _{IN} 24V	100	1.8	8.0 to 80.0									HSOP8								
New BD7J201EFJ-LB	10W at V _{IN} 48V												HTSOP-J8								
New BD7J200EFJ-LB	5W at V _{IN} 24V												HTSOP-J8								
New BD7J200HFN-LB	10W at V _{IN} 48V	100	1.75	8.0 to 80.0																	HSOP8

☆：开发中

栅极驱动器

内置绝缘元件的栅极驱动器

内置绝缘元件的栅极驱动器											
Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Maximum Output Current (A)	Operating Temperature (°C)	Function	Package	Automotive Grade AEC-Q100
BM6101FV-C	4.5 to 5.5	14 to 24	-12 to 0	2,500	350	180	3	-40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	YES
BM6102FV-C	4.5 to 5.5	14 to 20	—	2,500	200	100	3	-40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	YES
BM6104FV-C	4.5 to 5.5	10 to 24	-12 to 0	2,500	150	90	3	-40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	YES
BM6109FV-C	4.5 to 5.5	14 to 18	—	2,500	700	600	4.5	-40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/Soft turn-off function for SCP	SSOP-B28W	YES
BM6112FV-C	4.5 to 5.5	14 to 20	-12 to 0	3,750	150	90	20	-40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B28W	YES
BM61M22BFJ-C	4.5 to 5.5	9 to 24	—	2,500	60	60	2	-40 to +125	UVLO	SOP-JW8	YES
BM61M41RFV-C	4.5 to 5.5	9 to 24	—	3,750	65	60	4	-40 to +125	Active miller clamping/UVLO	SSOP-B10W	YES
BM61S40RFV-C	4.5 to 5.5	16 to 20	—	3,750	65	60	4	-40 to +125	Active miller clamping/UVLO/OVP	SSOP-B10W	YES
BM61S41RFV-C	4.5 to 5.5	16 to 24	—	3,750	65	60	4	-40 to +125	Active miller clamping/UVLO	SSOP-B10W	YES
内置绝缘元件的栅极驱动器(工业设备用)											
Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Maximum Output Current (A)	Operating Temperature (°C)	Function	Package	
BM6105AFW-LBZ	4.5 to 5.5	13.3 to 20.0	-12 to 0	2,500	120	60	3	-40 to +105	Active miller clamping/Fault signal output/Ready output/UVLO/DESAT	SOP16WM	
BM6108FV-LB	4.5 to 5.5	10 to 24	-12 to 0	2,500	150	90	3	-40 to +105	Active miller clamping/Fault signal output/UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	

内置绝缘元件的栅极驱动器(内置反激式电源)

Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Maximum Output Current (A)	Operating Temperature (°C)	Function	Package	Automotive Grade AEC-Q100
BM60052AFV-C	4 to 32	10 to 20	-12 to 0	2,500	120	90	3	-40 to +125	Active miller clamping/Fault signal output/UVLO/DESAT/Ready output/Soft turn-off function for DESAT	SSOP-B28W	YES
BM60054AFV-C	4 to 32	10 to 20	-12 to 0	2,500	120	90	3	-40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/Ready output/Soft turn-off function for SCP	SSOP-B28W	YES
BM60055FV-C	4.5 to 30.0	9 to 24	—	2,500	250	170	5	-40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/Soft turn-off function for SCP/SCP/2 level turn off	SSOP-B28W	YES
BM60060FV-C	8 to 24	13.5 to 24.0	—	2,500	210	90	9	-40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/Soft turn-off function for SCP/Gate Resistance Selecting	SSOP-B28W	YES
BM60059FV-C	4.5 to 24	14 to 24	—	2,500	450	400	10	—	Active miller clamping/Fault signal output/UVLO/SCP/Soft turn-off function for SCP/Gate Resistance Selecting	SSOP-B28W	YES

其他

IGBT/MOSFET低边栅极驱动器

Part No	Input-side Supply Voltage (V)	I/O Delay Time (ns)	Output Current (A)	ch	Operating Temperature (°C)	Package	Automotive Grade AEC-Q100
BD2310G	4.5 to 18	15	4/-4	1	-40 to +125	SSOP5	—

IGBT/MOSFET高边低边栅极驱动器

Part No	Input-side Supply Voltage (V)	High-side Floating Supply Voltage (V)	I/O Delay Time (ns)	minimum Output Current (A)	Dead Time (ns)	ch	Operating Temperature (°C)	Package	Automotive Grade AEC-Q100
New BD2320EFJ-LA	7.5 to 14.5	100	27/29	3.5/-4.5*	—	2	-40 to +125	HTSOP-J8	—
BM60212FV-C	10 to 24	1,200	75	3/-3	—	2	-40 to +125	SSOP-B20W	YES
BM60213FV-C	10 to 24	1,200	75	3/-3	—	2	-40 to +125	SSOP-B20W	YES

*BD2320EFJ is a standard value.

(LAPIS Technology产品)

电池管理系统(BMS)用非绝缘型栅极驱动器

Part No.	Supply Voltage (V)	Gate Driving Voltage (V) Min	Turn on Time (μs) Max	Turn off Time (μs) Max	Operating temperature (°C)	Package	Halogen Free Support	Automotive Grade Available AEC-Q100
☆ML5810	+6.5 to +64.0	10	350	70	-40 to +105	P-TSSOP20-0225-0.65-TK6	✓	YES
ML5810A						P-TSSOP20-0225-0.65-TK6		—

☆：开发中

温度监测器

内置绝缘元件的温度监测器

Part No.	Supply Voltage 1 (V)	Supply Voltage 2 (V)	Isolation Voltage (Vrms)	Circuit Current 1 (mA)	Circuit Current 2 (mA)	Input Voltage (V)	Output Current Accuracy (%)	Output Duty Accuracy (%)	Operating Temperature (°C)	Package	Automotive Grade AEC-Q100
BM66002FV-C	9 to 24	3.0 to 5.5	2,500	3.75	0.2	1.4 to 4.0	±2.0	±2.0	-40 to +125	SSOP-B20W	YES

电源管理开关

1ch小型高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD6538G	2.7 to 5.5	150	H Active	0.5	0.5/-/1.0	1.0	Latch	Recovery	15	—	SSOP5
BD2220G	2.7 to 5.5	160	H Active	0.5	0.5/-/1.0	1.0	Latch	Recovery	15	—	SSOP5
BD2221G	2.7 to 5.5	160	L Active	0.5	0.5/-/1.0	1.0	Latch	Recovery	15	—	SSOP5
BD2224G	2.7 to 5.5	150	H Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery	15	—	SSOP5
BD2225G	2.7 to 5.5	150	L Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery	15	—	SSOP5
BD2226G	2.7 to 5.5	150	H Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery	15	—	SSOP5
BD2227G	2.7 to 5.5	150	L Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery	15	—	SSOP5
BD2232G	2.7 to 5.5	100	H Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery	15	60	SSOP5
BD2233G	2.7 to 5.5	100	L Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery	15	60	SSOP5
BD2240G	2.7 to 5.5	110	H Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery	15	60	SSOP5
BD2241G	2.7 to 5.5	110	L Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery	15	60	SSOP5
BD2246G	2.7 to 5.5	110	H Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery	15	60	SSOP5
BD2247G	2.7 to 5.5	110	L Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery	15	60	SSOP5
BD2248G	2.7 to 5.5	110	H Active	0.2	0.2/0.3/0.4	1.0	Recovery	Recovery	15	60	SSOP5
BD2222G*	2.8 to 5.5	90	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	—	SSOP6
BD2242G*	2.8 to 5.5	90	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	60	SSOP6
BD2243G*	2.8 to 5.5	90	L Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	60	SSOP6

*UL approved File No. E243261

车载用 1ch小型高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD22621G-M	2.7 to 5.5	120	H Active	0.15	0.18/0.30/0.42	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2262G-M	2.7 to 5.5	120	H Active	0.2	0.2/0.3/0.4	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD22641G-M	2.7 to 5.5	120	H Active	0.5	0.57/0.76/0.96	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2264G-M	2.7 to 5.5	120	H Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2265G-M	2.7 to 5.5	120	L Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2266G-M	2.7 to 5.5	120	H Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2267G-M	2.7 to 5.5	120	L Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2268G-M	2.7 to 5.5	110	H Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2269G-M	2.7 to 5.5	110	L Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2244G-M*2	2.8 to 5.5	100	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	60	SSOP6	FSs	YES
BD2245G-M*2	2.8 to 5.5	100	L Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	60	SSOP6	FSs	YES

1ch小型高边开关IC(工业设备用)

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD6538G-LB	2.7 to 5.5	150	H Active	0.5	0.5/-/1.0	1.0	Latch	Recovery	15	-	SSOP5
BD2220G-LB	2.7 to 5.5	160	H Active	0.5	0.5/-/1.0	1.0	Latch	Recovery	15	-	SSOP5
BD2221G-LB	2.7 to 5.5	160	L Active	0.5	0.5/-/1.0	1.0	Latch	Recovery	15	-	SSOP5
BD2224G-LB	2.7 to 5.5	150	H Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery	15	-	SSOP5
BD2225G-LB	2.7 to 5.5	150	L Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery	15	-	SSOP5
BD2226G-LB	2.7 to 5.5	150	H Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery	15	-	SSOP5
BD2227G-LB	2.7 to 5.5	150	L Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery	15	-	SSOP5

1ch高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD2051AFJ	2.7 to 5.5	80	H Active	0.5	0.7/1.0/1.6	1.2	Recovery	Recovery	1.3	-	SOP-J8
BD82001FVJ	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J
BD82000FVJ	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J
BD2065AFJ	2.7 to 5.5	80	H Active	1.0	1.1/1.5/2.3	1.2	Recovery	Recovery	2.5	-	SOP-J8
BD82065FVJ	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J
BD82061FVJ	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J
BD82020FVJ*2	2.8 to 5.5	90	H Active	1.1	1.1/1.5/2.0	0.4	Recovery	Recovery	12	75	TSSOP-B8J
BD82021FVJ*2	2.8 to 5.5	90	L Active	1.1	1.1/1.5/2.0	0.4	Recovery	Recovery	12	75	TSSOP-B8J
BD82022FVJ*2	2.8 to 5.5	90	H Active	1.5	1.5/2.0/2.6	0.4	Recovery	Recovery	12	75	TSSOP-B8J
BD82023FVJ*2	2.8 to 5.5	90	L Active	1.5	1.5/2.0/2.6	0.4	Recovery	Recovery	12	75	TSSOP-B8J
BD82024FVJ*2	2.8 to 5.5	90	H Active	2.1	2.1/2.5/3.3	0.4	Recovery	Recovery	12	75	TSSOP-B8J
BD82025FVJ*2	2.8 to 5.5	90	L Active	2.1	2.1/2.5/3.3	0.4	Recovery	Recovery	12	75	TSSOP-B8J
BD82028FVJ*2	4.5 to 5.5	72	H Active	0.5	0.6/1.0/1.2	0.3	Recovery	Recovery	13	75	TSSOP-B8J
BD82029FVJ*2	4.5 to 5.5	72	L Active	0.5	0.6/1.0/1.2	0.3	Recovery	Recovery	13	55	TSSOP-B8J
BD82030FVJ*2	4.5 to 5.5	72	H Active	1.0	1.05/1.5/1.8	0.3	Recovery	Recovery	13	55	TSSOP-B8J
BD82031FVJ*2	4.5 to 5.5	72	L Active	1.0	1.05/1.5/1.8	0.3	Recovery	Recovery	13	55	TSSOP-B8J
BD82032FVJ*2	4.5 to 5.5	72	H Active	1.5	1.55/2.0/2.3	0.3	Recovery	Recovery	13	55	TSSOP-B8J
BD82033FVJ*2	4.5 to 5.5	72	L Active	1.5	1.55/2.0/2.3	0.3	Recovery	Recovery	13	55	TSSOP-B8J
BD82034FVJ*2	4.5 to 5.5	72	H Active	2.0	2.05/2.5/2.8	0.3	Recovery	Recovery	13	55	TSSOP-B8J
BD82035FVJ*2	4.5 to 5.5	72	L Active	2.0	2.05/2.5/2.8	0.3	Recovery	Recovery	13	55	TSSOP-B8J
BD82038FVJ*2	2.7 to 5.5	72	H Active	0.5	0.60/1.00/1.20	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82039FVJ*2	2.7 to 5.5	72	L Active	0.5	0.60/1.00/1.20	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82040FVJ*2	2.7 to 5.5	72	H Active	1.0	1.05/1.50/1.80	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82041FVJ*2	2.7 to 5.5	72	L Active	1.0	1.05/1.50/1.80	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82042FVJ*2	2.7 to 5.5	72	H Active	1.5	1.55/2.00/2.30	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82043FVJ*2	2.7 to 5.5	72	L Active	1.5	1.55/2.00/2.30	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82044FVJ*2	2.7 to 5.5	72	H Active	2.0	2.05/2.50/2.80	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82045FVJ*2	2.7 to 5.5	72	L Active	2.0	2.05/2.50/2.80	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82046FVJ*2	2.7 to 5.5	72	H Active	2.5	2.70/3.20/3.80	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82047FVJ*2	2.7 to 5.5	72	L Active	2.5	2.70/3.20/3.80	0.5	Recovery	Recovery	7	55	TSSOP-B8J

车载用 1ch高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD82004FVJ-M	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J	FSs	YES
BD82005FVJ-M	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J	FSs	YES
BD82006FVJ-M	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J	FSs	YES
BD82007FVJ-M	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J	FSs	YES

1ch高边开关IC(工业设备用)

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD82001FVJ-LB	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J
BD82000FVJ-LB	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J
BD82065FVJ-LB	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J
BD82061FVJ-LB	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery	15	-	TSSOP-B8J

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

*2 UL approved File No. E243261

2ch高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OC	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD6516F*2	3.0 to 5.5	110	H Active	1.1	1.2/1.65/2.5	1.3	Recovery	Recovery	1	—	SOP8
BD2066FJ*2	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8
BD2062FJ*2	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8

车载用 2ch高边开关IC

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OC	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD2068FJ-M	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8	FSs	YES
BD2069FJ-M	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8	FSs	YES

2ch高边开关IC(工业设备用)

Part No.	Input Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OC	Thermal Shut Down	Flag Output Delay/ at Over Current (ms)	Discharge Resistance (Ω)	Package
BD2066FJ-LB*2	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8
BD2062FJ-LB*2	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8

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*2 UL approved File No. E243261

负载开关IC

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package (mm)
BD6528HFV	V _{DD} =2.7 to 4.5/ V _{IN} =0 to 2.7	20	110	1	H Active	0.5	—	0.5	—	70	HVSOF6
BD6529GUL	V _{DD} =2.7 to 4.5/ V _{IN} =0 to 2.7	20	100	1	H Active	0.5	—	0.5	—	70	VCSP50L1 1.0x1.5, H=0.55
BD2200GUL	2.7 to 5.5	20	100	1	H Active	0.5	—	1.0	—	70	VCSP50L1 1.0x1.5, H=0.55
BD2201GUL	2.7 to 5.5	20	100	1	H Active	1.0	—	1.0	—	70	VCSP50L1 1.0x1.5, H=0.55
BD2204GUL	V _{DD} =2.7 to 4.5/ V _{IN} =1.2 to 2.4	30	120	1	H Active	0.5	—	0.06	Recovery	80	VCSP50L1 1.0x1.5, H=0.55
BD2202G	2.7 to 3.6	70	150	1	H Active	0.2	0.25/—/1.0	1.2	Recovery	—	SSOP5
BD2206G	2.7 to 3.6	70	150	1	H Active	0.5	0.8/—/1.6	1.2	Recovery	—	SSOP5
BD6520F	3.0 to 5.5	110	50	1	H Active	2.0	—	2.0	Latch	350	SOP8
BD6522F	3.0 to 5.5	110	50	1	H Active	2.0	—	1.0	Latch	350	SOP8

负载开关IC(工业设备用)

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package (mm)
BD2202G-LB	2.7 to 3.6	70	150	1	H Active	0.2	0.25/—/1.0	1.2	Recovery	—	SSOP5
BD2206G-LB	2.7 to 3.6	70	150	1	H Active	0.5	0.8/—/1.6	1.2	Recovery	—	SSOP5

1ch小型高边负载开关IC

BUS1DJC0GWZ	1.1 to 5.0	0.35	63	1	H Active	2.0	—	0.012	—	80	UCSP30L1 0.8x0.8, H=0.35
BUS1DJC3GWZ	1.1 to 5.0	0.35	63	1	H Active	2.0	—	0.19	—	80	UCSP30L1 0.8x0.8, H=0.35

34V耐压1ch小型高边负载开关IC

New	BV1HAL45EFJ	8 to 32	0.5	45	1	H Active	3.4 to 9.9 Adjustable	17.4 to 34.6	11.79 to 64.05 Adjustable	Recovery	—	HTSOP-J8
	BV1HAL85EFJ	8 to 32	0.5	85	1	H Active	2.5 to 6.5 Adjustable	8.7 to 17.3	5.45 to 29.60 Adjustable	Recovery	—	HTSOP-J8
	BV1HALA5EFJ	8 to 32	0.5	150	1	H Active	0.75 to 2.1 Adjustable	5.7 to 11.3	5.45 to 29.60 Adjustable	Recovery	—	HTSOP-J8

2ch小型高边负载开关IC

BDS2EJAAGUL	3.0 to 3.6	0.2	45	2	H Active	1.0	1.0	— (Soft Start)	Recovery	30	VCSP50L1 1.95x1.0, H=0.55
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高边NMOSFET用控制器IC

Part No.	Input Voltage (V)	Current Consumption (μA)	Output Voltage (V)		Number of Output channel (ch)	Control Input Logic	Output Turn on Time (ms)	Discharge Resistance (Ω)	Package
			V _{CC} =3.3V	V _{CC} =5.0V					
BD2270HFV	2.7 to 5.5	50	9.5	13.5	1	H Active	0.13	200	HVSOF5

高边NMOSFET用控制器IC(工业设备用)

BD2270HFV-LB	2.7 to 5.5	50	9.5	13.5	1	H Active	0.13	200	HVSOF5
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无线供电

(LAPIS Technology产品)

受电LSI(13.56MHz Wireless Charge)

Part No.	Function Overview	Supply Voltage (V)	Frequency Band (MHz)	Data Flash (Byte)	Function	I/F	ADC (method)	Clock Source	Operating Temperature (°C)	Package	Halogen Free Support*1
ML7630	Power Receiving	Generated from magnetic field	13.56	496Byte	200mW Output Output Voltage setting	NFC Forum Type3 Tag I ² C slave x1ch	10bit (SA type) x3ch	Generated from magnetic field	−40 to +85	S-UFLGA34-2.59x2.59-0.40-W (WCSP34)	✓
New	ML7660	Power Receiving	13.56	496Byte	1W Output	NFC Forum Type3 Tag I ² C slave x1ch SPI slave x1ch	10bit (SA type) x4ch	Generated from magnetic field	−40 to +85	S-UFLGA30-2.28x2.61-0.40-W (WCSP30) P-WQFN32-0505-0.50-A63	✓

送电LSI(13.56MHz Wireless Charge)

Part No.	Function Overview	Supply Voltage (V)	Frequency Band (MHz)	Data Flash (Byte)	Function	I/F	ADC (method)	Clock Source	Operating Temperature (°C)	Package	Halogen Free Support*1
ML7631	Power Transmission	5	13.56	496Byte	Transmission Power Adjust Control	I ² C slave x1ch	10bit (SA type) x3ch	27.12MHz (Crystal)	−40 to +85	P-WQFN32-0505-0.50-A63	✓
New	ML7661	Power Transmission	5	496Byte	Transmission Power Adjust Control	I ² C slave x1ch SPI slave x1ch	10bit (SA type) x6ch	27.12MHz (Crystal)	−40 to +85	P-WQFN40-0606-0.50-63	✓

*1 带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。

电池管理

电池充电IC

New

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Charge Voltage (V)	Charge Current Accuracy (%)	Switching Frequency (kHz)	Operating Temperature (°C)	Package
BD71631QWZ	(2.9V: 30mA, 4.0V: 300mA) to 5.5	—	2.0 to 4.7 (±2%)	±10 (ICHG=100mA to 300mA)	—	−30 to +105	UMMP10LZ1824
BD8664GW	4.1 to 5.5	70	8.3±0.5%	±2	1,000	−30 to +85	UCSP75M2
BD8665GW	4.1 to 5.5	70	8.4±0.5%	±3	1,000	−30 to +85	UCSP75M2
BD8668GW	4.1 to 5.5	70	8.4±0.5%	±3	1,000	−30 to +85	UCSP75M2
BD99950MUV	6.0 to 24.0	—	8.4/12.6±0.5%	±3	600 to 1,200	−10 to +85	VQFN20PV3535
BD99954GW	3.8 to 25.0	—	4.192/8.4/ 12.592/16.8±0.5%	±2 to ±40	600 to 1,200	−30 to +85	UCSP55M3C
BD99954MWV	3.8 to 25.0	—	4.192/8.4/ 12.592/16.8±0.5%	±2 to ±40	600 to 1,200	−30 to +85	UQFN040V5050

充电保护IC

标准保护型

Part No.	Absolute Maximum Ratings (V)	Over Voltage Detection Level (V)	Under Voltage Detection Level (V)	Over Current Detection Level (A)	Ron (mΩ)	OK/FLGB PIN Logic			Package (mm)
						<UVLO	Normal	>OVLO	
BD6040GUL	+30	6.4±0.2	2.65±0.12	Min 1.2	125 (Typ)	H	L	H	VCSP50L1 1.6×1.6, H=Max 0.55
BD6041GUL	+30	5.85±0.15	2.65±0.12	Min 1.2	125 (Typ)	H	L	H	VCSP50L1 1.6×1.6, H=Max 0.55
BD6042GUL	+30	6.2±0.2	2.65±0.12	Min 1.2	125 (Typ)	H	L	H	VCSP50L1 1.6×1.6, H=Max 0.55
BD6044GUL	+36	6.4±0.2	2.65±0.12	Min 1.2	125 (Typ)	H	H	L	VCSP50L1 1.6×1.6, H=Max 0.55
BD6049GUL	+30	6.8±0.17	2.65±0.12	Min 1.2	125 (Typ)	H	H	L	VCSP50L1 1.6×1.6, H=Max 0.55
BD91409GW	+30	6.25±0.15	3.125±0.1	Min 2.0	75 (Typ)	—	—	—	UCSP75M2 2.8×2.8, H=Max 0.85

负电压保护型

BD6046GUL	±30	6.7±0.2	3.6±0.18	Min 1.2	250 (Typ)	H	H	L	VCSP50L2 2.5×2.5, H=Max 0.55
BD6047AGUL	±30	5.85±0.15	3.6±0.18	Min 1.7	125 (Typ)	H	H	L	VCSP50L1 1.95×1.95, H=Max 0.55

标准保护型：防止来自接合器/USB的异常电压。内置过电压闭锁电路、过电流限制电路、低电压保护电路、内部启动延迟以及状态标志。
负电压保护型：加之以往的保护功能，增加了防止USB逆接引起的负电压保护功能无需任何附加部件。

蓄电元件电池平衡IC

EDLC电池平衡IC(4~6节对应)

Part No.	Absolute Maximum Ratings (V)	Cell Voltage Detection Range VCB (V)	Over-voltage Detection Voltage 1 (V)	Over-voltage Detection Voltage 2 (V)	Shunt SW Ron (Ω)	Function			Package (mm)	ComfySIL™ Functional Safety*1
						EN	OVLO	Stack IC		
BD14000EFV-C	+28	2.4 to 3.1V± (1%) (0.1V/step usable)	VCB+0.15 or 0.25 (OVLOSEL=L or H)	VCB+0.3 or 0.5 (OVLOSEL=L or H)	1 (Typ)	✓	✓	✓	HTSSOP-B30 10.0×7.6, H=Max 1.0	FSs

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

库仑计数器IC

库仑计数器IC

New

Part No.	Supply Voltage (V)	Gain (V/V)	Resolution (bit)	I/F	Operating Temperature (°C)	Package	Automotive Grade AEC-Q100
BD7220FV-C	4.5 to 5.5	5/25/51	16	SPI	−40 to +125	SSOP-B20 6.5×6.4 (t=1.45)	YES

锂电池监控LSI

(LAPIS Technology产品)

独立式

New

Part No.	Description	Supply Voltage (V)	Overvoltage Detection Accuracy (Typ) (mV)	Charge/Discharge Control FET driver	Cell Balancing Switch	Current Consumption (Typ) (μA)		Overvoltage/Undervoltage Detection	Charge and Discharge Over-Current Detection	Temperature Detection	Short Circuit Detection	Open Wire Detection	Parameter Change	Operation Temperature (°C)	Package	Halogen Free Support*1	
						Operating	Power-down										
ML5205	5-cells, 2nd protection	+5 to +25	±25	—	—	3	—	Overvoltage detection	—	—	—	✓	Mask option	-20 to +85	P-VSSOP8 -0150-0.65-TK6	✓	
ML5206	5-cells, 2nd protection with Autonomous Cell Balancing	+7 to +80	±20		Internal (Autonomous)	1									P-VSSOP8 -0150-0.65-TK6		
ML5232	14-cells, 2nd protection				—	2.5								P-TSSOP20 -0225-0.65-TK6			
ML5233	10-cells, cell voltage/current/temperature protection, cascade connection	+5 to +60	±15	NMOS	—	25	0.1	✓	✓	✓	✓	—		-40 to +85	P-LQFP32 -0707-0.80-TK6		✓
ML5241	5-cells, 2nd protection	+5 to +25	±25	—	—	1	0.1	Overvoltage detection	—	—	—	✓		-20 to +85	P-WSON10 -0303-0.50-63		
ML5243	5-cells, cell voltage/current/temperature protection	+7 to +80		NMOS	—	6.5								✓	✓		
ML5245	13-cells, cell voltage/current/temperature protection, cell voltage monitoring				+7 to +80	±15		—	25	✓	✓	✓		✓	—		

模拟前端型

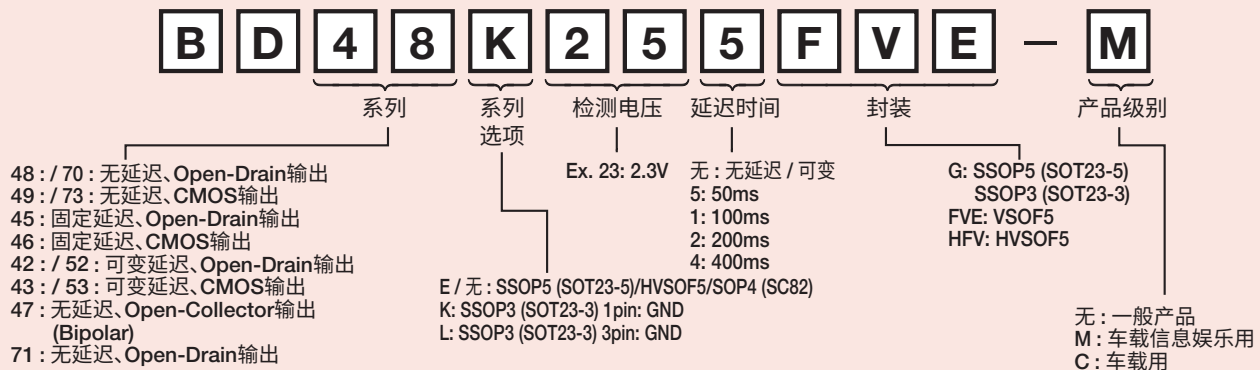
Part No.	Description	Supply Voltage (V)	Cell Voltage Measurement Error (Typ) (mV)	Monitoring Output	Charge/Discharge Control FET driver	Cell Balancing Switch	Current Consumption (Typ) (μA)		Overvoltage/Undervoltage Detection	Charge and Discharge Over-Current Detection	Short Circuit Detection	Parameter Change	Operation Temperature (°C)	Package	Halogen Free Support*1
							Operating	Power-down							
ML5204	5-cells, analog monitoring output	+3.3 to +42.0	±25	cell voltage/current	—	internal	14	—	✓	✓	✓	Mask option	-40 to +85	P-TSSOP20 -0225-0.65-TK6	✓
ML5238	16-cells, analog monitoring output	+7 to +80	±20	cell voltage/current	NMOS		50	0.1	—	—				MCU control	
ML5236	14-cells, ADC built-in, digital monitoring output	+8 to +64	±15	cell voltage/current/temperature	High-side NMOS		330		Overvoltage detection			—			
ML5239	16-cells, ADC built-in, cascade connection, digital monitoring output	+10 to +72	±10	cell voltage/temperature	—	external	1200			—	P-TQFP64 -1010-0.50-ZK6				
ML5248	7-cells, analog monitoring output	+5.0 to +31.5	±20	cell voltage/current	High-side NMOS	internal	32		—	✓	P-SSOP30 -56-0.65-ZK6				

*1 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。

电压检测器(复位IC)系列

电压检测器(复位IC)系列	P.61	过电压检测型(复位IC)	P.62
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看门狗计时器复位 品名构成说明



电压检测器(复位IC)

电压检测器(复位IC)

CMOS电压检测器

Part No.	Types	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output Current (mA)		Package
							ON	OFF		V _{DD} =1.2V	V _{DD} =2.4V	
BD48ExxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1	Open Drain	0.60 (V _S =4.8V)	0.85 (V _S =4.8V)	V _S ×0.05	1	4	SSOP5
BD48xxFVE series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							VSOF5
BD48KxxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							SSOP3 (GND 1pin)
BD48LxxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							SSOP3 (GND 3pin)
BD49ExxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1	CMOS	0.60 (V _S =4.8V)	0.85 (V _S =4.8V)	V _S ×0.05	1	4	SSOP5
BD49xxFVE series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							VSOF5
BD49KxxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							SSOP3 (GND 1pin)
BD49LxxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.0	0.1							SSOP3 (GND 3pin)

品名中的xx为检测电压值(2.3V~6.0V的0.1V阶跃)。例：BD48ExxG系列中需要2.3V检测电压值的情况下，品名为BD48E23G。

电压检测器(低电压检测型)

Part No.	Types	Voltage detection Precision at T _a =+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output Current (mA)		Package
							ON	OFF		V _{DD} =1.2V	V _{DD} =2.4V	
BU48xxG series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1	Open Drain	0.40 (V _{DET} =4.8V)	0.55 (V _{DET} =4.8V)	V _{DET} ×0.05	3.3	6.5	SSOP5
BU48xxFVE series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							VSOF5
BU48xxF series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							SOP4
BU49xxG series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1	CMOS	0.40 (V _{DET} =4.8V)	0.55 (V _{DET} =4.8V)	V _{DET} ×0.05	3.3	6.5	SSOP5
BU49xxFVE series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							VSOF5
BU49xxF series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							SOP4

双极型电压检测器

Part No.	Types	Voltage detection Precision at T _a =+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (mV)	“L” Output Current (mA)	Package
							I _{OCL}	I _{OCH}			
BD47xxG series	0.1V step 28 types	±1	1.9 to 4.6	0.85 to 10.00	0.1	Open Collector	1.5	1.6	50	15	SSOP5

电压检测器(低电压检测型)：*品名中的xx为检测电压值(0.9V~4.8V的0.1V阶跃)。例：BU48xxG系列中需要2.3V检测电压值的情况下，品名为BU48E23G。

双极型电压检测器：*品名中的xx为检测电压值(1.9V~4.6V的0.1V阶跃)。例：BD47xxG系列中需要2.3V检测电压值的情况下，品名为BD47E23G。

过电压检测型(复位IC)

过电压检测用电压检测器

Part No.	Voltage Detection Precision at T _a =+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (mV)	“L” Output Current (mA)	Package
						I _{CC}	I _{CH}			
BD71L4LG-1	±0.8	4.05	1.2 to 7.0	—	Open Drain	0.6	0.7	30	4 (V _{DD} =4.25V)	SSOP5
BD71L4LHFV-1	±0.8	4.05	1.2 to 7.0	—					4 (V _{DD} =4.25V)	HVSOF5
BD71L3SHFV	±1.0	3.83	1.2 to 7.0	—					4 (V _{DD} =4.03V)	HVSOF5

过电压检测用电压检测器(支持125°C)

Part No.	Types	Voltage detection Precision Within The All Temperature (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output Current (mA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							ON	OFF		V _{DD} =1.2V			
Nano BD70HxxG-2C series	0.1V step 4 types	±1.4	3.46 to 3.76	0.8 to 6.0	0.1	Open Drain	0.27	0.3	—	1.0mA or more	SSOP5	FSs	YES
Nano BD73HxxG-2C series	0.1V step 4 types		3.46 to 3.76	0.8 to 6.0	0.1	CMOS					SSOP5	—	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

可在型号的“xx”处加入检测电压。具体请参见数据表中的规格。



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延迟时间可变量 电压检测器

延迟时间外部设定型 电压检测器(传感检测型)

Part No.	Types	Voltage detection Precision at T _a =+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output Current (mA)		RESET Active Timeout Period (ms)	Delay Circuit Resistance (MΩ)	Package	ComfySIL™ Functional Safety*1
							ON	OFF		V _{DD} =1.2V	V _{DD} =2.4V				
BD52ExxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1	Open Drain	0.90 (V _{DET} =4.8V)	0.85 (V _{DET} =4.8V)	V _{DET} ×0.05	1.2	5.0	Variable	9	SSOP5	FSs
BD52xxFVE series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1		0.90 (V _{DET} =4.8V)	0.85 (V _{DET} =4.8V)						VSO5	—
BD53ExxG series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1	CMOS	0.90 (V _{DET} =4.8V)	0.85 (V _{DET} =4.8V)	V _{DET} ×0.05	1.2	5.0	Variable	9	SSOP5	FSs
BD53xxFVE series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1		0.90 (V _{DET} =4.8V)	0.85 (V _{DET} =4.8V)						VSO5	—

延迟时间外部设定型 电压检测器(低电压检测型)

BU42xxG series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1	Open Drain	0.40 (V _{DET} =4.8V)	0.55 (V _{DET} =4.8V)	V _{DET} ×0.05	3.3	6.5	Variable	10	SSOP5	
BU42xxFVE series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							Variable	10	VSO5	
BU42xxF series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							Variable	10	SOP4	
BU43xxG series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1	CMOS	0.40 (V _{DET} =4.8V)	0.55 (V _{DET} =4.8V)	V _{DET} ×0.05	3.3	6.5	Variable	10	SSOP5	
BU43xxFVE series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							Variable	10	VSO5	
BU43xxF series	0.1V step 40 types	±1	0.9 to 4.8	0.7 to 7.0	0.1							Variable	10	SOP4	

延迟时间外部设定型 电压检测器(传感检测型)

Part No.	Voltage Detection Precision at T _a =+25°C (%)	Voltage Detection (V)	Power Supply Voltage (V)	Output type	Circuit Current (μA)	Hysteresis Voltage (V)	Output ON Resistance (Ω)	RESET Active Timeout Period (ms)	Package
BD4142HFV	±1.8	0.5	3.0 to 5.5	Open Drain	7.5	0.01	100	Variable	HVSOF5

延迟时间外部设定型电压检测器：品名中的xx为检测电压值(2.3V~6.0V的0.1V阶跃)。例：BD52xxG系列中需要2.3V检测电压值的情况下，品名为BD52E23G。

延迟时间外部设定型电压检测器(低电压检测型)：品名中的xx为检测电压值(0.9V~4.8V的0.1V阶跃)。例：BU42xxG系列中需要2.3V检测电压值的情况下，品名为BU4223G。

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

延迟时间内部设定型 电压检测器

延迟时间内部设定型 电压检测器(漏极开路输出型)

Part No.	Types	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output current (mA)		RESET Active Timeout Period (ms)	Manual Reset PIN	Package
							ON	OFF		V _{DD} =1.2V	V _{DD} =2.4V			
BD45xx5G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1	Open Drain	0.80 (V _{DET} =4.8V)	0.85 (V _{DET} =4.8V)	V _{DET} ×0.05	1.2	5.0	50	YES	SSOP5
BD45xx1G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1							100	YES	SSOP5
BD45xx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1							200	YES	SSOP5
BU45Kxx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1		2.3 (V _{DET} =4.8V)	2.8 (V _{DET} =4.8V)				200	NO	SSOP3 (GND 1pin)
BU45Lxx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							200	NO	SSOP3 (GND 3pin)
BU45Kxx4G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							400	NO	SSOP3 (GND 1pin)
BU45Lxx4G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							400	NO	SSOP3 (GND 3pin)

品名中的xx为检测电压值(2.3V~4.8V的0.1V阶跃)。例：BD45xx5G系列中需要2.3V检测电压值的情况下，品名为BD45235G。

延迟时间内部设定型 电压检测器(CMOS输出型)

Part No.	Types	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output current (mA)		RESET Active Timeout Period (ms)	Manual Reset PIN	Package
							ON	OFF		V _{DD} =1.2V	V _{DD} =2.4V			
BD46xx5G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1	CMOS	0.80 (V _{DET} =4.8V)	0.85 (V _{DET} =4.8V)	V _{DET} ×0.05	1.2	5.0	50	YES	SSOP5
BD46xx1G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1							100	YES	SSOP5
BD46xx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.95 to 10.00	0.1							200	YES	SSOP5
BU46Kxx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1		2.3 (V _{DET} =4.8V)	2.8 (V _{DET} =4.8V)				200	NO	SSOP3 (GND 1pin)
BU46Lxx2G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							200	NO	SSOP3 (GND 3pin)
BU46Kxx4G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							400	NO	SSOP3 (GND 1pin)
BU46Lxx4G series	0.1V step 26 types	±1	2.3 to 4.8	0.6 to 10.0	0.1							400	NO	SSOP3 (GND 3pin)

品名中的xx为检测电压值(2.3V~4.8V的0.1V阶跃)。例：BD46xx5G系列中需要2.3V检测电压值的情况下，品名为BD46235G。

车载用电压检测器

电压检测器(105°C对应)

Part No.	Types	Voltage Detection Precision at T _a =25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output Current (mA)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Manual Reset PIN	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							ON	OFF		V _{DD} =1.2V	V _{DD} =2.4V						
BD48ExxG-M series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1	Open Drain	0.60 (V _{DET} =4.8V)	0.85 (V _{DET} =4.8V)	V _{DET} ×0.05	1.0	4	—	—	NO	SSOP5	FSs	YES
BD49ExxG-M series	0.1V step 38 types		2.3 to 6.0	0.95 to 10.00	0.1	CMOS						—	—	NO	SSOP5	FSs	YES
BD45Exx5G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1	Open Drain	0.80 (V _{DET} =4.8V)	0.85 (V _{DET} =4.8V)	V _{DET} ×0.05	1.2	5	50	—	YES	SSOP5	FSs	YES
BD45Exx1G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							100	—	YES	SSOP5	FSs	YES
BD45Exx2G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							200	—	YES	SSOP5	FSs	YES
BD46Exx5G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							50	—	YES	SSOP5	FSs	YES
BD46Exx1G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1	CMOS						100	—	YES	SSOP5	FSs	YES
BD46Exx2G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							200	—	YES	SSOP5	FSs	YES
Nano BD52xxG-2M series	0.1V step 42 types	±2.5 (All Temperature)	0.9 to 5.0	0.8 to 6.0	0.1	Open Drain	0.23	0.27	V _{DET} ×0.05	1.0mA or more	2.0mA or more	Variable	±30% (All Temperature)	NO	SSOP5	FSs	YES
Nano BD53xxG-2M series	0.1V step 42 types		0.9 to 5.0	0.8 to 6.0	0.1	CMOS						Variable		NO	SSOP5	FSs	YES

电压检测器(125°C对应)

Part No.	Types	Voltage Detection Precision Within The All Temperature (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection step (V)	Output type	Circuit current (μA)		Hysteresis Voltage (V)	“L” Output current (mA)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Manual Reset PIN	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							ON	OFF		V _{DD} =1.2V	V _{DD} =2.4V						
Nano BD52xxG-2C series	0.1V step 42 types	±3	0.9 to 5.0	0.8 to 6.0	0.1	Open Drain	0.23	0.27	V _{DET} ×0.05	1.0mA or more	2.0mA or more	Variable	±50 (All Temperature)	NO	SSOP5	FSs	YES
Nano BD53xxG-2C series	0.1V step 42 types		0.9 to 5.0	0.8 to 6.0	0.1	CMOS						Variable		NO	SSOP5	FSs	YES
Nano BD52xxNVX-2C series	0.1V step 6 types	±2.5	2.6 to 3.1	0.8 to 6.0	0.1	Open Drain	0.27	0.3	—	1.0mA or more	2.0mA or more	Variable	—	NO	SSON004R1010	FSs	YES
Nano BD70HxxG-2C/ BD70HxxG-C series	0.1V step 5 types	±1.4	3.46 to 3.76/ 3.06	0.8 to 6.0	0.1							—		NO	SSOP5	FSs/FSs	YES
Nano BD73HxxG-2C series	0.1V step 4 types		3.46 to 3.76	0.8 to 6.0	0.1	CMOS						—		NO	SSOP5	FSs	YES

窗口电压检测器(125°C对应)

	Part No.	Voltage Detection Precision Within The All Temperature (%)	Over Voltage Detection (V)	Low Voltage Detection (V)	Output Type	Circuit current (μA)	Hysteresis Voltage (V)	“L” Output Current (mA)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
								V _{DD} =1.6V	V _{DD} =2.4V					
New	BD48W00G-C	±2.5	1.2	1.2	Open Drain	3	V _{DET} ×0.01	1	2	—	—	SSOP6	FSs	YES
Nano	BD52W01G-C	±5	1.32	1.08		0.3				Variable	(All Temperature)	SSOP6	FSs	YES
Nano	BD52W03G-C		1.98	1.62								SSOP6	FSs	YES
Nano	BD52W05G-C		3.63	2.97								SSOP6	FSs	YES
Nano	BD52W06G-C		5.5	4.5								SSOP6	FSs	YES

品名中的“xx”为检测电压值。例：BD48ExxG-M系列中需要2.3V检测电压值的情况下，品名为BD48E23G-M。

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车载用电源监测IC

4ch电源良好(看门狗计时器+复位)

Part No.	Supply Voltage (V)	RESET Detection Voltage (V)	Power good Detection Voltage (V)	Detection level (%)	Detection Precision (%)	Power good ch	Output type	WDT type	RESET Active Timeout Period	Self-diagnosis function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD39040MUF-C	2.7 to 5.5	Variable	Variable	±10	±3	4	Open Drain	Window Type	10ms	YES	VQFN16FV3030	FSs	YES
New BD39042MUF-C	2.7 to 5.5			±6	±1.4				10ms		VQFN16FV3030	FSs	YES

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其他

看门狗计时器复位IC

Part No.	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Output type	Circuit Current (μA)	Hysteresis Voltage (V)	“L” Output Current (mA)		RESET Active Timeout Period	Delay Circuit Resistance (MΩ)	WDT Active Voltage (V)	INH Mode (Active)	Package
							V _{DD} =1.2V	V _{DD} =0.5V					
BD37A19FVM	±1.5	1.9	1.0 to 10.0	Open Drain	5	V _{DET} ×0.13 V _{DET} ×0.035 V _{DET} ×0.045 V _{DET} ×0.05 V _{DET} ×0.035	0.7	Variable	10	2.5 to 10.0		H	MSOP8
BD37A41FVM	±1.5	4.1	1.0 to 10.0									H	MSOP8
BD87A28FVM	±1.5	2.8	1.0 to 10.0									L	MSOP8
BD87A29FVM	±1.5	2.9	1.0 to 10.0									L	MSOP8
BD87A34FVM	±1.5	3.4	1.0 to 10.0									L	MSOP8
BD87A41FVM	±1.5	4.1	1.0 to 10.0									L	MSOP8
BD99A41F	±1.5	4.1	1.0 to 10.0									H	SOP8

复合型(2ch复位+比较器)电压检测器

Part No.	Voltage Detection Precision (%)	Voltage Detection (V)	Output type	Circuit Current (μA) V _{SS} =5V	Hysteresis Voltage (mV)	RESET Active Timeout Period	Input Voltage (V)	Package
BD3775AF	±1.5	1.23	Open Collector+Constant Current Pull Up	350	28	Variable	3.5 to 18.0	SOP8

电机/执行机构驱动器

DC有刷电机驱动器	P.65	步进电机驱动器	P.67
三相无刷电机驱动器	P.70	风扇电机驱动器	P.71
ODD用驱动器	P.73	打印机用驱动器	P.74
相机用驱动器	P.74	便携式相机模块用驱动器	P.76

DC有刷电机驱动器

H桥驱动器 7V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6210F	1	3.0 to 5.5	0.5	2.0 or more	0.8 or less	1.0	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6210HFP								HRP7
BD6211F			1.0			1.0		SOP8
BD6211HFP								HRP7
BD6212FP			2.0			0.5		HSOP25
BD6212HFP								HRP7

H桥驱动器 18V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6220F	1	6.0 to 15.0	0.5	2.0 or more	0.8 or less	1.5	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6221F			1.0			1.5		SOP8
BD6222FP			2.0			1.0		HSOP25
BD6222HFP								HRP7
BD6225FP	2		0.5			1.5		HSOP25
BD6226FP			1.0			1.5		HSOP25

H桥驱动器 36V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6230F	1	6.0 to 32.0	0.5	2.0 or more	0.8 or less	1.5	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6231F			1.0			1.5		SOP8
BD6231HFP								HRP7
BD6232FP			2.0			1.0		HSOP25
BD6232HFP								HRP7
BD6236FP	2		1.0			1.5		HSOP25
BD6236FM								HSOP-M28
BD6237FM			2.0			1.0		HSOP-M28
BD62105AFVM	1	8.0 to 28.0	0.5			1.8		MSOP8
BD62110AEFJ			1.0					HTSOP-J8
BD62120AEFJ			2.0			0.65		HTSOP-J8
BD62130AEFJ			3.0			0.35		HTSOP-J8
BD62210AEFV	2		1.0			1.9		HTSSOP-B28
BD60203EFV			1.7					HTSSOP-B24
BD62220AEFV			2.0			0.65		HTSSOP-B28
BD62221MUV	2	8.0 to 28.0	2.0			0.55		VQFN032V5050

H桥驱动器 40V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Output Modes	Output ON Resistance (Upper + Lower) (Typ) (Ω)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD16950EFV-C	1	5.5 to 40.0	—	Available to select High, Low or Hi-Z Output by each Output terminal.	—	−40 to +125	HTSSOP-B24	FSs	YES
BD16939AEFV-C	3 (Half 6ch)	6.3 to 32.0	1.0	Available to select High, Low or Hi-Z Output by each Output terminal.	1.35	−40 to +125	HTSSOP-B28	FSs	YES
BD16938AEFV-C	4 (Half 8ch)	6.3 to 32.0	1.0	Available to select High, Low or Hi-Z Output by each Output terminal.	1.4	−40 to +125	HTSSOP-B28	—	YES
BD16912EFV-C	1	6.0 to 18.0	3.0	Forward/Reverse/ Standby/Brake	0.36	−40 to +125	HTSSOP-B20	FSs	YES

H桥驱动器 50V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD63130AFM	1	8.0 to 46.2	3.0	2.0 or more	0.8 or less	0.55	Forward/ Reverse/ Standby (Idle)/ Brake	HSOP-M36
BD63150AFM			5.0			0.3		HSOP-M36
BD64220EFV	2		2.0			0.65		HTSSOP-B28

H桥驱动器 大电流

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD62321HFP	1	6.0 to 32.0	3.0	2.0 or more	0.8 or less	1.0	Forward/ Reverse/ Standby (Idle)/ Brake	HRP7

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

H桥驱动器 高速驱动系列								
Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6736FV	1	2.0 to 9.0	1.0 peak 3.2	2.0 or more	0.7 or less	0.35	Forward/Reverse/ Standby (Idle)/ Brake	SSOP-B20
BD6376GUL	1	2.0 to 9.0	1.0	2.0 or more	0.7 or less	0.45		VCSP50L1
BD65494MUV	1	2.0 to 9.0	1.0 peak 2.5	2.0 or more	0.7 or less	0.55		VQFN016V3030
BD63576NUX	1	2.0 to 10.0	1.2 peak 3.2	V _{CC} ×0.7 or more	V _{CC} ×0.3 or less	0.55		VSON008X2020
BD65491FV	1	1.8 to 16.0	1.2 Peak 4	1.45 or more	0.5 or less	0.35		SSOP-B16
BD65496MUV	1	1.8 to 16.0	1.2 peak 5	1.45 or more	0.5 or less	0.35		VQFN024V4040
BD63573NUV	1	2.0 to 16.0	1.2 peak 3.2	1.45 or more	0.5 or less	0.38		VSON010V3030
BD6735FV	2	2.0 to 8.0	1.0	2.0 or more	0.7 or less	1.0		SSOP-B20
BD63572MUV	2	2.0 to 9.0	1.0 peak 2.5	1.85 or more	0.9 or less	0.4		VQFN20PV3535
BD63565EFV	2	1.8 to 16.0	1.0	1.45 or more	0.5 or less	0.9		HTSSOP-B20
BD65492MUV	2	1.8 to 16.0	1.0	1.45 or more	0.5 or less	0.9		VQFN024V4040
输出2.0A以上 一个电机用可反转电机驱动器								
Part No.	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output Saturation Voltage (Typ) (V)	Output Operation Modes	Package	
			H Level	L Level				
BA6219BFP-Y	8 to 18	2.2	3.0 or more	1.0 or less	2.4 (I _O =0.4A)	Forward/Reverse/ Idle/Brake	HSOP25	
输出1.0A以上 两个电机用可反转电机驱动器								
BA6247FP-Y	8 to 18	1.0	3.5 or more	1.0 or less	2.4 (I _O =0.5A)	Forward/Reverse/ Brake	HSOP25	

步进电机驱动器

高性能、高可靠性 36V 耐压系列 步进电机驱动器 适用于 PPC、MFP、工业设备等

BD63740FM	CLK	4.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63731EFV	CLK	3.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63730EFV	CLK	3.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63725BEFV	CLK	2.5A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63720AEFV	CLK	2.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63715AEFV	CLK	1.5A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63710AEFV	CLK	1.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63920MUV	CLK	2.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63910MUV	CLK	1.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD63716AMWV	CLK	1.5A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD68720EFV	CLK	2.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD68715EFV	CLK	1.5A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD68710EFV	CLK	1.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD6389FM	CLK	2.2A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD6387EFV	CLK	2.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD6385EFV	CLK	1.5A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection
BD6383EFV	CLK	1.0A	STEP	Current	FW/RW	DECAY	Thin	FUNCTION	ONE	T.S.D.	O.C.P.	UV	O.V.L.O.	Short	Protection

*1 BD6387EFV, BD6385EFV, BD6383EFV和BD6389FM功能兼容。

*2 BD6387EFV, BD6385EFV和BD6383EFV引脚兼容。

*3 BD68720EFV, BD68715EFV和BD68710EFV功能兼容。

*4 BD68720EFV, BD68715EFV和BD68710EFV引脚兼容。

*5 BD63731EFV, BD63725BEFV, BD63720AEFV, BD63715AEFV和BD63710AEFV功能兼容。

*6 BD63731EFV, BD63725BEFV, BD63720AEFV, BD63715AEFV和BD63710AEFV引脚兼容。

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V _{CC}			High Level	Low Level		
BD63740FM	8 to 28	4.0	2.0	2.0	0.8	0.28	HSOP-M36
BD63731EFV	8 to 28	3.0	2.0	2.0	0.8	0.28	HTSSOP-B28
BD63730EFV	19 to 28	3.0	2.0	2.0	0.8	0.4	HTSSOP-B54
BD63725BEFV	8 to 28	2.5	2.0	2.0	0.8	0.35	HTSSOP-B28
BD63720AEFV	19 to 28	2.0	2.0	2.0	0.8	0.65	HTSSOP-B28
BD63715AEFV	19 to 28	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD63710AEFV	19 to 28	1.0	2.0	2.0	0.8	1.2	HTSSOP-B28
BD63920MUV	8 to 28	2.0	2.5	2.0	0.8	0.49	VQFN028V5050
BD63910MUV	8 to 28	1.0	2.5	2.0	0.8	1.3	VQFN028V5050
BD63716AMWV	8 to 28	1.5	2.0	2.0	0.8	0.85	UQFN040V5050
BD68720EFV	19 to 28	2.0	2.0	2.0	0.8	0.65	HTSSOP-B28
BD68715EFV	19 to 28	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD68710EFV	19 to 28	1.0	2.0	2.0	0.8	1.2	HTSSOP-B28
BD6389FM	10 to 28	2.2	4.5	2.0	0.8	0.7	HSOP-M36
BD6387EFV	10 to 28	2.0	4.5	2.0	0.8	0.8	HTSSOP-B40
BD6385EFV	10 to 28	1.5	4.5	2.0	0.8	1.0	HTSSOP-B40
BD6383EFV	10 to 28	1.0	4.5	2.0	0.8	1.5	HTSSOP-B40

图标说明	CLK IN 控制信号输入 CLK-IN型	PARA IN 控制信号输入 PARALLEL-IN型	1.0A 1.5A 2.0A 2.2A 2.5A 3.0A 4.0A 最大输出电流	STEP 步进	恒流 恒流	可以切换 正转和反转
DECAY SW	SLOW/FAST/MIX 衰减转换功能	Thin PKG 薄型封装	大功率封装	兼容 兼容	ONE POWER 内置稳压器实现单电源系统	UVLO 相邻引脚短路保护
T.S.D.	内置温度保护电路	O.C.P. 内置过电流保护电路	UVLO 内置低电压保护电路	O.V.L.O. 内置过电压保护电路	4kV 6kV 静电耐压	Protection IC 逆装保护

标准36V耐压系列 步进电机驱动器

BD6395FP	PARAMETER	1.5A	UNISTEP	Common	Small	ONB	T.S.D.	A	UV	OVLO	4kV	FUNCTION	1	2
BD6393FP	PARAMETER	1.2A	UNISTEP	Common	Small	ONB	T.S.D.	A	UV	OVLO	4kV	FUNCTION	1	2
BD68620EFV	PARAMETER	2.0A	UNISTEP	Common	Thin	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD68610EFV	PARAMETER	1.0A	UNISTEP	Common	Thin	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD6290EFV	PARAMETER	0.8A	UNISTEP	Common	Thin	ONB	T.S.D.	A	UV	OVLO	4kV	FUNCTION	1	2
BD63960EFV	PARAMETER	1.5A	UNISTEP	Common	Thin	ONB	T.S.D.	A	UV	OVLO	4kV	FUNCTION	1	2
BD63940EFV	PARAMETER	1.2A	UNISTEP	Common	Thin	ONB	T.S.D.	A	UV	OVLO	4kV	FUNCTION	1	2
BD63621MUV	CLK	2.0A	UNISTEP	Common	Small	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD63620AEFV	CLK	2.0A	UNISTEP	Common	Thin	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD63610AEFV	CLK	1.0A	UNISTEP	Common	Thin	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD63801EFV	CLK	0.8A	UNISTEP	Common	Thin	ONB	T.S.D.	A	UV	OVLO	4kV	FUNCTION	1	2
BD60223FP	CLK	1.5A	UNISTEP	Common	Small	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD63888AEKV	CLK	1.5A	UNISTEP	Common	Small	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD68888AEKV	PARAMETER	1.5A	UNISTEP	Common	Small	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD63888MUV	CLK	1.2A	UNISTEP	Common	Small	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2
BD68888MUV	PARAMETER	1.65A	UNISTEP	Common	Small	ONB	T.S.D.	A	UV	OVLO		FUNCTION	1	2

*1 BD6395FP, BD6393FP, 和BD6290EFV功能兼容。

*2 BD6395FP和BD6393FP引脚兼容。

*3 BD63620AEFV, BD63610AEFV, 和BD63801EFV功能兼容。

*4 BD63960EFV和BD63940EFV引脚兼容。

*5 BD68620EFV和BD68610EFV功能兼容。

*6 BD63960EFV和BD63940EFV功能兼容。

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V _{CC}			High Level	Low Level		
BD6395FP	16 to 28	1.5	3.0	2.0	0.8	1.2	HSOP25
BD6393FP	16 to 28	1.2	3.0	2.0	0.8	1.5	HSOP25
BD68620EFV	19 to 28	2.0	1.3	2.0	0.8	0.95	HTSSOP-B24
BD68610EFV	19 to 28	1.0	1.3	2.0	0.8	1.8	HTSSOP-B20
BD6290EFV	19 to 28	0.8	3.0	2.0	0.8	2.8	HTSSOP-B24
BD63960EFV	19 to 28	1.5	2.7	2.0	0.8	1.1	HTSSOP-B24
BD63940EFV	19 to 28	1.2	2.7	2.0	0.8	1.4	HTSSOP-B24
New BD63621MUV	8 to 28	2.0	2.5	2.0	0.8	0.49	VQFN028V5050
BD63620AEFV	19 to 28	2.0	1.3	2.0	0.8	0.95	HTSSOP-B24
BD63610AEFV	19 to 28	1.8	1.3	2.0	0.8	1.8	HTSSOP-B20
BD63801EFV	19 to 28	0.8	2.7	2.0	0.8	2.8	HTSSOP-B24
BD60223FP	8 to 28	1.5	2.5	2.0	0.8	0.55	HSOP25
BD63888AEKV	8 to 28	1.5	5.0	2.0	0.8	1.0	HTQFP48V
BD68888AEKV	8 to 28	1.5	5.0	2.0	0.8	1.0	HTQFP48V
BD63888MUV	8 to 28	1.2	5.0	2.0	0.8	1.0	VQFN036V6060
New BD68888MUV	8 to 28	1.65	5.0	2.0	0.8	1.0	VQFN036V6060

支持μ-step的36V耐压系列 步进电机驱动器

BD63860EFV															
BD63510AEFV															
BD63511EFV															
BD63520AEFV															
BD63521EFV															
BD63524AEFV															
BD63525AEFV															
BD63740FM															

*1 BD63510AEFV, BD63520AEFV和BD63525AEFV功能兼容。

*2 BD63511AEFV和BD63521AEFV功能兼容。

Part No.	Supply Voltage (V)		Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V _{CC}	V _M			High Level	Low Level		
BD63860EFV	16 to 28		2.5	4.0	2.0	0.8	0.8	HTSSOP-B28
BD63510AEFV	8 to 28		1.0	2.5	2.0	0.8	1.75	HTSSOP-B28
BD63511EFV	8 to 28		1.0	2.5	2.0	0.8	1.75	HTSSOP-B28
BD63520AEFV	8 to 28		2.0	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63521EFV	8 to 28		2.0	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63524AEFV	8 to 28		2.5	2.5	2.0	0.8	0.35	HTSSOP-B28
BD63525AEFV	8 to 28		2.5	2.5	2.0	0.8	0.35	HTSSOP-B28
BD63740FM	8 to 28		4.0	2.0	2.0	0.8	0.28	HSOP-M36

低电压系列 步进电机驱动器 用于微型和便携式打印机

BD6382EFV	PARAM	10mA	0.8A	10STEP	Current Pulse	Thin PKG	Small Size	T.S.D.	O.C.P.	UV	4kV	Short Protection	FUNCTION	ONE POWER	UV	OVLO	4kV
BD6381EFV	PARAM	10mA	1.2A	10STEP	Current Pulse	Thin PKG	Small Size	T.S.D.	O.C.P.	UV	4kV	Short Protection	FUNCTION	ONE POWER	UV	OVLO	4kV
BD6380EFV	PARAM	10mA	0.8A	10STEP	Current Pulse	Thin PKG	Small Size	T.S.D.	O.C.P.	UV	4kV	Short Protection	FUNCTION	ONE POWER	UV	OVLO	4kV

Part No.	Supply Voltage (V)		Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V _{CC}	V _M			High Level	Low Level		
BD6382EFV	3.0 to 5.5	5.5 to 13.5	0.8	1.6	2.0	0.8	1.2	HTSSOP-B24
BD6381EFV	2.5 to 5.5	6.0 to 13.5	1.2	1.6	2.0	0.8	1.0	HTSSOP-B24
BD6380EFV	2.5 to 5.5	4.0 to 13.5	0.8	1.6	2.0	0.8	1.2	HTSSOP-B24

40V耐压系列 步进电机驱动器

BD63401EFV	PARAM	10mA	1.35A	10STEP	Current Pulse	Thin PKG	Small Size	ONE POWER	T.S.D.	O.C.P.	UV	OVLO	4kV
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Part No.	Supply Voltage (V)		Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V _{CC}	V _M			High Level	Low Level		
BD63401EFV	8 to 33		1.35	2.0	2.0	0.8	1.0	HTSSOP-B20

45V耐压系列 步进电机驱动器

BD6425EFV																
BD6423EFV																
BD6422EFV																

Part No.	Supply Voltage (V)		Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V _{CC}	V _M			High Level	Low Level		
BD6425EFV	19 to 42		1.5	2.0	2.0	0.8	1.1	HTSSOP-B28
BD6423EFV	19 to 42		1.0	2.0	2.0	0.8	2.0	HTSSOP-B24
BD6422EFV	19 to 42		1.0	2.0	2.0	0.8	2.0	HTSSOP-B24

50V耐压系列 步进电机驱动器

BD64220EFV	PARAM	10mA	2.0A	10STEP	Current Pulse	DECAY SW	Thin PKG	Small Size	ONE POWER	T.S.D.	O.C.P.	UV	OVLO	4kV
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Part No.	Supply Voltage (V)		Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V _{CC}	V _M			High Level	Low Level		
BD64220EFV	8 to 46.2		2.0	2.0	2.0	0.8	0.65	HTSSOP-B28

36V耐压系列 单极步进电机驱动器

BM6343FS-Z	CLK	SPI	10mA	3.0A	10STEP	Current Pulse	FW/RW	ONE POWER	T.S.D.	O.C.P.	UV	OVLO	4kV
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Part No.	Supply Voltage (V)		Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V _{CC}	V _M			High Level	Low Level		
BM6343FS-Z	8 to 28		3.0	5.0	2.0	0.8	0.10	SSOP-A54_36

内置过电流保护电路	内置低电压保护电路	内置过电压保护电路	静电耐压	相邻引脚短路保护	内置稳压器实现单电源系统	内置温度保护电路
功能兼容	待机电流 0μA	-40℃~+85℃ 工作温度范围	IC 逆保护			

车载用40V耐压 步进电机驱动器

BD63800MUF-C



Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package	Automotive Grade AEC-Q100
	V _{CC}			High Level	Low Level			
BD63800MUF-C	6 to 28	1.21	3.5mA	2.0	0.8	0.75	VQFN32FBV050	YES

三相无刷电机驱动器

带速度控制的三相无刷电机预驱动器

BD6762FV



BD63030EKV-C



Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage		PWM Frequency (kHz)	Package		
					H Level	L Level	Upper (V)	Lower (V)				
BD6762FV	36	16 to 28	-25 to +75	17	2.2	0.8	V _{CC} +6.8	10.8	16	HTSSOP-B24		
Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage V _{CC} =6.5V		PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					H Level	L Level	Upper (V)	Lower (V)				
BD63030EKV-C	50	6.5 to 18.0	-40 to +125	18	3.8	1.9	2×V _{CC} -1.0	5.5	20	HTQFP64AV	FSs	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

三相无刷电机预驱动器

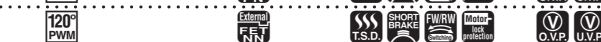
BD6761FS



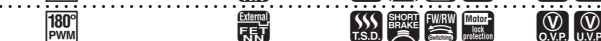
BD63001AMUV



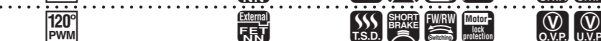
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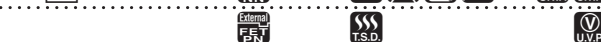
BM62300MUV



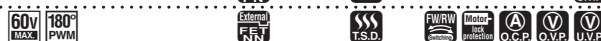
BD63003MUV



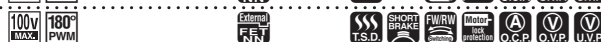
BD67891MUV



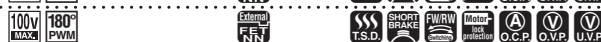
BD16805FV-M



BM64070MUV



BM64300MUV



Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage (V)		PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					H Level	L Level	Upper	Lower				
BD6761FS	36	16 to 28	−35 to +75	15.0	2.2	0.8	V _{CC} +6	10.5	15	SSOP-A32	—	—
BD63001AMUV	33	4.5 to 5.5/6 to 28	−40 to +85	2.5	2.0	0.8	V _{CC} −0.2	9.5	20	VQFN024V4040	—	—
BD63002AMUV	33	8.0 to 26.4	−40 to +85	2.5	2.0	0.8	V _{CC} +7	5.0	External IN	VQFN028V5050	—	—
BM62300MUV	33	8 to 28	−40 to +105	14	V _{VREG50} −1.2	0.8	V _G −0.1	0.1	40	VQFN032V5050	—	—
BD63003MUV	40	10.8 to 26.4	−40 to +85	4.5	2.0	0.8	V _{CC} +10*2	10*2	External IN	VQFN032V5050	—	—
BD67891MUV	45	20 to 40	−25 to +85	2.5	2.0	0.8	V _{MM} −7.8	7.8	External IN	VQFN032V5050	—	—
BD16805FV-M	60	8 to 18	−40 to +110	15.2	3.0	1.0	2×V _{CC} −0.5	8.0	25	SSOP-B40	FSs	YES
BM64070MUV	100	28 to 77	−40 to +105	6.4	2.8	0.8	V _G −0.1	0.1	90	VQFN040V6060	—	—
BM64300MUV	100	28 to 63	−40 to +105	13	V _{VREG50} −1.2	0.8	V _G −0.1	0.1	40	VQFN040V6060	—	—

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

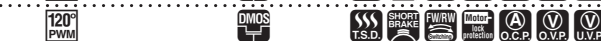
*2 恒流驱动型

三相无刷电机驱动器

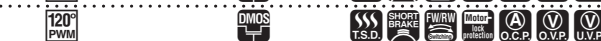
BD63005AMUV



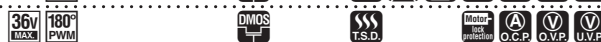
BD63006MUV



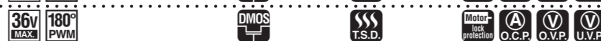
BD63007MUV



BD63015EFV



BD63035EFV-M



Part No.	Max Voltage (V)	Supply Voltage (V)	Output Current (A)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
						H Level	L Level					
BD63005AMUV	33	10 to 28	2.0	-25 to +85	4.4	2.0	0.8	0.17	External IN	VQFN040V6060	—	—
BD63006MUV	33	8 to 28	1.5	-40 to +85	4.4	2.0	0.8	0.8	External IN	VQFN024V4040	—	—
BD63007MUV	33	8 to 28	3.0	-25 to +85	4.4	2.0	0.8	0.17	External IN	VQFN040V6060	—	—
BD63015EFV	36	8 to 28	1.5	-40 to +105	8.0	2.0	0.8	0.6	External IN	HTSSOP-B20	—	—
BD63035EFV-M	36	8 to 28	1.5	-40 to +105	8.0	2.0	0.8	0.6	22.7	HTSSOP-B20	FSs	YES

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

图标	说明
CLK	控制信号输入 CLK-IN型
SERVO	内置伺服电路
SPI	接口
Iomax 1.2A	最大输出电流
36V MAX	耐压
60V MAX	耐压
100V MAX	耐压
120° SLOPE PWM	输出通
120° PWM	输出方式
180° PWM	输出方式
STEP	1/32STEP
恒流	恒流
PWM	PWM
FWRW	可以切换正转和反转
External FET	外置输出段FET 上侧: Nch/下侧: Nch
External FET	外置输出段FET 上侧: Pch/下侧: Nch
DMOS	DMOS 输出
DMOS	DMOS 输出
FG	内置FG放大器
HYS	内置磁滞放大器
ONE POWER	内置稳压器或现单电源系统
T.S.D.	内置温度保护电路
SHORT BRAKE	内置短路制动
Motor lock protection	内置电机锁定保护电路
O.C.P.	内置过电流保护电路
O.V.P.	内置过电压保护电路
U.V.P.	内置输出低电压保护电路
U.V.P.	内置输出低电压保护电路
UV LO	内置低电压保护电路

风扇电机驱动器

5V单相全波风扇电机驱动器

BH6766FVM	 	   
BD6965NUX	 	    
BU6909AGFT	  	    
BU69090NUX	  	    

Part No.	Supply Voltage (V)	I _O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BH6766FVM	2.0 to 6.0	630	CMOS	Upper and Lower 0.6 (I _O =250mA)	—	1.3	—	MSOP8
BD6965NUX	2.0 to 5.5	800	CMOS	Upper and Lower 0.4 (I _O =250mA)	Direct PWM	—	1 : 10	VSON008X2030
BU6909AGFT	1.8 to 5.5	800	CMOS	Upper and Lower 0.16 (I _O =200mA)	Direct PWM	Include Hall sensor	1 : 10	TSSOF6
BU69090NUX	1.8 to 5.5	800	CMOS	Upper and Lower 0.16 (I _O =200mA)	Direct PWM	Include Hall sensor	1 : 10	VSON008X2030

标准单相全波风扇电机驱动器

BD6981FVM	 	    
BD6982FVM	 	    
BD6967FVM	 	     
BD6968FVM	 	     
BD6962FVM	 	   
BD6964FVM	 	   
BD6961F	 	   
BD6964F	 	   
BD69830FV	 	    

Part No.	Supply Voltage (V)	I _O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD6981FVM	2.8 to 16.0	800	DMOS	Upper and Lower 0.45 (I _O =200mA)	—	1.2	1 : 6	MSOP8
BD6982FVM	2.8 to 16.0	800	DMOS	Upper and Lower 0.45 (I _O =200mA)	—	1.2	1 : 6	MSOP8
BD6967FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.45 (I _O =200mA)	DC/Direct PWM	1.2	1 : 10	MSOP10
BD6968FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.45 (I _O =200mA)	DC/Direct PWM	1.2	1 : 10	MSOP10
BD6962FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.4 (I _O =300mA)	Direct PWM	—	1 : 10	MSOP8
BD6964FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.4 (I _O =300mA)	Direct PWM	—	1 : 10	MSOP8
BD6961F	3.3 to 14.0	1,000	DMOS	Upper and Lower 0.4 (I _O =300mA)	Direct PWM	—	1 : 10	SOP8
BD6964F	3.3 to 14.0	1,000	DMOS	Upper and Lower 0.4 (I _O =300mA)	Direct PWM	—	1 : 10	SOP8
BD69830FV	6.0 to 28.0	900	DMOS	Upper and Lower 0.6 (I _O =200mA)	Direct PWM	1.2	1 : 30	SSOP-B14

 内置过电压保护电路	 相邻引脚短路保护	 电源电压兼容	 稳定旋转时能够流向电机的电流估计值	 内置霍尔元件	 RPM脉冲信号输出
 内置霍尔元件用电源电压	 可控制转速	 不需要电机锁定检测所需的外部电容器	 电机锁定检测功能	 锁定警报信号输出	 低占空比状态下可以启动电机
 无需霍尔传感器检测电机转子位置的驱动方式	 有助于软开关、静音				

高性能单相全波风扇电机驱动器

BD6971FV	12V MIN 350 CLASS	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	IO LIMIT
BD6994FV	12V MIN 350 CLASS	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	
BD6995FV	12V MIN 400 CLASS	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	IO LIMIT
BD61243FV	12V MIN 450 CLASS	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	IO LIMIT
BD61245EFV	12V MIN 800 CLASS	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	IO LIMIT SOFT START
BD61248NUX	12V MIN 400 CLASS	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	
BD69730FV	12V MIN PRE DRIVER	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	IO LIMIT SOFT START
BD69740FV	12V MIN PRE DRIVER	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	IO LIMIT	SOFT START
BD61250MUV	24V MIN PRE DRIVER	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	IO LIMIT SOFT START
BD61251FV	12V MIN PRE DRIVER	FG T/UL	SOFT S/W	HALL	LOCK	MIN rpm	T.S.D.	IO LIMIT SOFT START

Part No.	Supply Voltage (V)	I _o Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD6971FV	3.5 to 17.0	1,000	DMOS	Upper and Lower 0.6 (I _o =200mA)	DC/PWM	1.3	1 : 10	SSOP-B14
BD6994FV	4.5 to 17.0	1,200	DMOS	Upper and Lower 0.6 (I _o =400mA)	DC/PWM	1.25	1 : 10	SSOP-B16
BD6995FV	4.3 to 17.0	1,200	DMOS	Upper and Lower 0.6 (I _o =400mA)	DC	1.25	1 : 10	SSOP-B16
BD61243FV	5.5 to 16.0	1,200	DMOS	Upper and Lower 0.4 (I _o =400mA)	DC/PWM	1.25	1 : 10	SSOP-B14
BD61245EFV	4.0 to 16.0	1,800	DMOS	Upper and Lower 0.2 (I _o =400mA)	DC/PWM	—	1 : 10	HTSSOP-B16
BD61248NUX	4.5 to 16.0	1,200	DMOS	Upper and Lower 0.2 (I _o =200mA)	PWM	—	1 : 10	VSON1010X3030
BD69730FV	4.3 to 17.0	10	Pre-Driver	—	DC/PWM	1.26	1 : 20	SSOP-B16
BD69740FV	4.3 to 17.0	10	Pre-Driver	—	DC/PWM	1.26	1 : 20	SSOP-B16
BD61250MUV	4.5 to 36.0	10	Pre-Driver	—	DC/PWM	—	1 : 20	VQFN024V4040
BD61251FV	4.5 to 16.0	10	Pre-Driver	—	PWM	—	1 : 20	SSOP-B16

双相半波风扇电机驱动器

BA6406F	24V MIN PRE DRIVER	LOCK	ALARM
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Part No.	Supply Voltage (V)	I _o Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Zener Diode Clamp Voltage (V)	Output Clamp Voltage (V)	Lock Time Ratio	Package
BA6406F	4.0 to 28.0	70	Pre-Driver	—	—	—	—	—	1 : 4.5	SOP8

三相全波风扇电机驱动器

BD67173NUX	5V MIN 400 CLASS	SENSOR LESS DRIVE	PWM 150°	FG T/UL	T.S.D.	LOCK	MIN rpm	SOFT START
BD6326ANUX	5V MIN 400 CLASS	SENSOR LESS DRIVE	PWM 180°	FG T/UL	T.S.D.	LOCK	MIN rpm	SOFT START
BD63282EFV	12V MIN 400 CLASS	THREE HALL DRIVE	PWM 180°	FG T/UL	T.S.D.	LOCK	MIN rpm	SOFT START
BD63242EFV	12V MIN 450 CLASS	SENSOR LESS DRIVE	PWM 180°	FG T/UL	T.S.D.	LOCK	MIN rpm	SOFT START
BD63242FV	12V MIN 400 CLASS	SENSOR LESS DRIVE	PWM 180°	FG T/UL	T.S.D.	LOCK	MIN rpm	SOFT START
BD63241FV	12V MIN 400 CLASS	ONE HALL DRIVE	PWM 180°	FG T/UL	T.S.D.	LOCK	MIN rpm	SOFT START
BD63251MUV	12V MIN PRE DRIVER	ONE HALL DRIVE	PWM 180°	FG T/UL	T.S.D.	LOCK	MIN rpm	SOFT START

Part No.	Supply Voltage (V)	I _o Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD67173NUX	2.2 to 5.5	700	CMOS	Upper and Lower 0.25 (I _o =250mA)	PWM	—	1 : 5	VSON1010X3030
BD6326ANUX	2.2 to 5.5	700	CMOS	Upper and Lower 0.25 (I _o =250mA)	PWM	—	1 : 5	VSON1010X3030
BD63282EFV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I _o =300mA)	DC/PWM	—	1 : 2, 1 : 5, 1 : 10	HTSSOP-B20
BD63242EFV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I _o =300mA)	DC/PWM	—	Setting of SOS-C-pin	HTSSOP-B16
BD63242FV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I _o =300mA)	DC/PWM	—	Setting of SOS-C-pin	SSOP-B16
BD63241FV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.24 (I _o =300mA)	PWM	1.25	1 : 5	SSOP-B16
BD63251MUV	5.5 to 15.0	10	Pre-Driver	—	PWM	1.25	1 : 10	VQFN024V4040

图标说明	5V MIN 12V MIN 24V MIN 电源电压兼容	350 CLASS 400 CLASS 450 CLASS 800 CLASS PRE DRIVER 稳定旋转时能够流向电机的电流估计值	Small 小型表面安装封装	FG T/UL RPM脉冲信号输出	SOFT S/W 有助于开关、静音	PWM 150° PWM 180° 输出通用电方式	HALL 内置霍尔元件用电源电压	SOFT START 可控制转速
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三相无刷风扇电机驱动器 家电用

BM6241FS		
BM6242FS		
BM6243FS		
BM6244FS		
BM6245FS		
BM6246FS		
BM6247FS		
BM6248FS		
BM6249FS		
BM6258FS		

Part No.	Control	Output Device	Rated Voltage (V)	Output Current (A)	Output ON Resistance (Ω)	Diode Forward Voltage (V)	FG Conversion Ratio	Package
BM6241FS	6 inputs	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_23
BM6242FS	6 inputs	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_23
BM6243FS	6 inputs	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_23
BM6244FS	120°	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_36A
BM6245FS	120°	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_36A
BM6246FS	120°	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_36A
BM6247FS	180° (Sinusoidal)	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_36A
BM6248FS	180° (Sinusoidal)	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_36A
BM6249FS	180° (Sinusoidal)	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_36A
New BM6258FS	180° (Sinusoidal)	MOSFET	600	1.5	2.7	1.1	15:12	SSOP-A54_36A

三相无刷风扇电机控制器 家电用

Part No.	Supply Voltage (V)	Commutation Logic	Control Voltage Input (V)	Phase Control (deg)	FG Conversion Ratio	Package
BD62017AFS	10.0 to 18.0	180° (Sinusoidal)	2.1 to 5.4	0 to +40	15 : 12	SSOP-A24
BD62018AFS	10.0 to 18.0	180° (Sinusoidal)	2.1 to 5.4	0 to +40	12 : 12	SSOP-A24

脉冲率转换器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Input Frequency (kHz)	Conversion Ratio	Package
BU6821G	4.5 to 5.5	0.5	0.005 to 5	15 : 12	SSOP5
BU6823G	4.5 to 5.5	0.5	0.005 to 5	21 : 12	SSOP5

ODD用驱动器

1ch系统电机驱动器 应用广泛

Part No.	Power Supply (V)	Dynamic Range of Driver Output (V)	I/F Amplifier	Mute of Driver Output	Regulator for DSP (V)	Protect Circuit for Low Power Supply	Protect for Abnormal Input	Temp. Protection	Standby Circuit	Package
BD7931F	4.5 to 14.0	7.5 (V _{CC} =8V, R _L =500mA)	—	—	—	—	—	✓	✓	SOP8

4ch系统电机驱动器 CD播放器的基本形式

Part No.	Power Supply (V)	I/F	FOCUS TILT (ch)	TRACKING (ch)	SLED	LOADING	SPINDLE	Short Circuit Protection for Loading	Protect for Pickup	Regulator	Reset	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8229EFV	4.5 to 14.0	Analog & PWM	1	1	DC Select input	DC	—	—	—	—	1 input 1 output	HTSSOP-B24	—	—
BD8266EFV-M	4.5 to 10.0	Analog & PWM	1	1	DC Select input	DC	—	—	Self off	—	—	HTSSOP-B24	FSs	YES
BD8263EFV-M	4.5 to 10.0	Analog & PWM	1	1	DC Select input	DC	✓	—	—	—	—	HTSSOP-B28	—	YES

5ch系统电机驱动器 增加负载通道

Part No.	Power Supply (V)	I/F	FOCUS TILT (ch)	TRACKING (ch)	SLED	LOADING	SPINDLE	Short Circuit Protection for Loading	Protect for Pickup	Regulator	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8205EFV-M	6.0 to 10.0	Analog & PWM	1	1	DC	DC	DC	—	—	—	HTSSOP-B24	FSs	YES

6ch~9ch系统电机驱动器 DVD、Blu-ray播放器的基本形式

Part No.	Power Supply (V)	I/F	FOCUS TILT (ch)	TRACKING (ch)	SLED	LOADING	SPINDLE	LVDS for SA	Short Circuit Protection for Loading	Protect for Pickup	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8256EFV-M	4.5 to 10.5	SPI	2	1	2ch STTEPING	DC	3-Phase Brushless	2ch	✓	Self off	HTSSOP-B54	FSs	YES

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。



超薄3传感器系统电机驱动器 基本型

Part No.	Supply Voltage (V)	ch	Output System	Output (Ω)	Output Gain	Under Voltage Protection	Overvoltage Protection	Input Abnormality Protection	Temperature Protection	Package
BH5510KVT	4.0 to 5.5	1 to 3	PWM	1.3	14dB	✓	✓	✓	✓	TQFP48V
		4, 5	PWM	1.5	14dB					
		6	PWM	0.6	1A/V or 0.2A/V					

打印机用驱动器

打印机用有刷电机驱动器

Part No.	Supply Voltage (V)	Output Current (A)	Output Current Peak (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
					H Level	L Level		
BD62210AEFV	8.0 to 28.0	1.0	1.5	2.5	2.0	0.8	1.9	HTSSOP-B28
BD62220AEFV	8.0 to 28.0	2.0	2.8	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63130AFM	8.0 to 46.2	3.0	5.0	2.5	2.0	0.8	0.55	HSOP-M36
BD63150AFM	8.0 to 46.2	5.0	6.0	2.5	2.0	0.8	0.3	HSOP-M36

纸传送或运输用双极型 步进电机驱动器

还备有其它可用于打印机和工业设备的步进电机驱动器。

Part No.	Power Supply (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
				High Level	Low Level		
BD63801EFV	19.0 to 28.0	0.8	2.7	2.0	0.8	2.8	HTSSOP-B24
BD68715EFV	19.0 to 28.0	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD63715AEFV	19.0 to 28.0	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28

纸传送用三相无刷电机预驱动器 面向LBP、PPC

Part No.	V _{CC} (V)	Power Supply (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External Threshold Voltage (V)		PWM Frequency (kHz)	Package
					H Level	L Level	Upper	Lower		
BD6761FS	36	16.0 to 28.0	-35 to +75	15.0	2.2	0.8	V _{CC} +6	10.5	15	SSOP-A32
BD6762FV	36	16.0 to 28.0	-25 to +75	17.0	2.2	0.8	V _{CC} +6.8	10.8	16	SSOP-B40

内置开关稳压器的系统电机驱动器(H桥+SWREG 2ch)

Part No.	V _{CC} (V)	Motor Rated Output Current	H Bridge ch	SW REG1 Output Current Range (A)	SW REG2 Output Current Range (A)	Standby Current (μA) (Max)	Package
New BD64547MUV	50	2.0 A/Phase	2	0 to 2.0	0 to 1.4	100	VQFN048V7070
New BD64008MUV	50	2.0 A/Phase	1 (2ch parallel use)	0 to 2.0	0 to 1.4	100	VQFN048V7070

多棱镜用三相无刷电机驱动器 面向LBP、PPC：输出电流限值为电流限制电压除以外接输出电流检测用电阻 (RNF电阻) 的值。
打印机用有刷电机驱动器：BD62210AEFV和BD62220AEFV引脚兼容。

相机用驱动器

相机用5通道系统镜头驱动器

Part No.	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Driven Motor, Driving System, and Output ON Resistance (Ω))				Input I/F	Reference Voltage Output For Output Setting Current (V)	Package (mm)
			AF	Zoom	Iris	Shutter			
BD6758KN	2.5 to 5.5	0.8	e.g. STM (1, 2ch) FULL ON 1.2	DCM (3ch) FULL ON 1.2	DCM or VCM (4ch) FULL ON 1.2	VCM (5ch) Constant current 1.0	Parallel	1.2 (±3%)	VQFN36 6.2x6.2, H=Max 0.95

相机用6通道系统镜头驱动器

Part No.	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Driven Motor, Driving System, and Output ON Resistance (Ω))					Input I/F	Reference Voltage Output For Output Setting Current (V)	Package (mm)
			AF	Zoom	Iris	Shutter	Barrier			
BD6373GW	2.5 to 5.5	0.8	e.g. STM (1, 2ch) FULL ON 1.2	STM (3, 4ch) FULL ON 1.2	DCM or VCM (5ch) FULL ON 1.2	VCM (6ch) FULL ON 1.2	—	Parallel	—	UCSP75M2 2.6x2.6, H=Max 0.85
BD6753KV	4.5 to 10.5 (1, 2ch) 2.0 to 10.5 (3 to 6ch)	0.8	e.g. STM (1, 2ch) FULL ON 1.2	STM (3, 4ch) FULL ON 1.2	DCM or VCM (5ch) PWM (±3%) 1.2	VCM (6ch) PWM (±3%) 1.2	—	Parallel + Serial	0.9 (±10%)	VQFP48C 9.0x9.0, H=Max 1.60

相机用1ch/2ch镜头驱动器

Part No.	ch	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Driven Motor, Driving System, and Output ON Resistance (Ω))						Turn on Time	Turn off Time (ns)	Control Frequency (kHz) (Max)	Package (mm)
					Cleaner	AF	Zoom	Iris	Shutter				
BD65492MUV	2	1.8 to 16.0	1.0	e.g.	—	STM (2ch) FULL ON 0.9	—	—	—	200ns (Including 80ns to Prevent from overlap current.)	80	500	VQFN024V4040 4.0×4.0, H=Max 1.0
BD6735FV	2	2.0 to 8.0	1.0	e.g.	—	—	—	STM (2ch) FULL ON 1.0	—	300ns (Including 90ns to Prevent from overlap current.)	100	100	SSOP-B20 6.5×6.4, H=Max 1.25
BD6376GUL	1	2.0 to 9.0	1.0	e.g.	—	—	DCM (1ch) FULL ON 0.45	—	—	200ns (Including 80ns to Prevent from overlap current.)	60	200	VCSP50L1 1.6×1.6, H=Max 0.55
BD65491FV	1	1.8 to 16.0	1.2 Peak 4.0	e.g.	—	—	—	—	Plunger (1ch) FULL ON 0.35	150ns (Including 80ns to Prevent from overlap current.)	50	500	SSOP-B16 6.5×5.0, H=Max 1.25
BD6736FV	1	2.0 to 9.0	1.0 Peak 3.2	e.g.	—	—	—	—	Plunger (1ch) FULL ON 0.35	1000ns (Including 800ns to Prevent from overlap current.)	100	100	SSOP-B20 6.5×6.4, H=Max 1.25
BD65499MUV	1	4.0 to 27.0	0.5 Peak 2.0	e.g.	Piezo (1ch) FULL ON 0.6	—	—	—	—	150ns (Including 80ns to Prevent from overlap current.)	50	300	VQFN028V5050 5.0×5.0, H=Max 1.0
BD65494MUV	1	2.0 to 9.0	1.0 Peak 2.5	e.g.	—	—	—	—	Plunger (1ch) FULL ON 0.55	200ns (Including 80ns to Prevent from overlap current.)	60	200	VQFN016V3030 3.0×3.0, H=Max 1.0
BD65496MUV	1	1.8 to 16.0	1.2 Peak 5.0	e.g.	—	—	—	—	Plunger (1ch) FULL ON 0.35	150ns (Including 80ns to Prevent from overlap current.)	50	500	VQFN024V4040 4.0×4.0, H=Max 1.0

STM : 步进电机, DCM : DC 电机, VCM : 音圈电机 (" Drive method examples of actuator " 为代表例, 可研讨其他使用方法。)

相机用支持μ-step的系统镜头驱动器

Part No.	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Driven Motor, Driving System, and Output ON Resistance (Ω))						Input I/F	μ-step Resolution	Package (mm)
				AF	Zoom	Iris	Shutter	Others			
BU24020GU	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5	e.g. 1	STM (1, 2ch) μ-step (class-D) 1.5	STM (3, 4ch) μ-step (class-D) 1.5	—	—	—	3-wire serial	1024	VCSP85H2 2.6×2.6, H=Max 1.0
			e.g. 2		DCM (3ch) FULL ON (PWM) 1.5	VCM (4ch) FULL ON (PWM) 1.5	—	—			
BU24033GW	1.62 to 3.6 (Lo) 2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) μ-step (class-D) 1.5	STM (3, 4ch) μ-step (class-D) 1.5	VCM (5ch) FULL ON (PWM) 1.0	VCM (6ch) constant current 1.0	—	3-wire serial	1024	UCSP75M3 3.0×3.0, H=Max 0.85
			e.g. 2		DCM (5ch) FULL ON (PWM+Speed control) 1.0	VCM (3ch) FULL ON (PWM) 1.5		DCM (4ch) FULL ON (PWM) 1.5			
BU24035GW	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) μ-step (class-D) 1.5	DCM (5ch) FULL ON (PWM+Speed control) 1.0	STM (3, 4ch) μ-step (class-D) 1.5	VCM (6ch) constant current 1.0	—	3-wire serial	1024	UCSP75M3 3.1×3.1, H=Max 0.85
			e.g. 2		DCM (3ch) FULL ON (PWM+Speed control) 1.5	VCM (5ch) FULL ON (PWM)/constant current 1.0		VCM (4ch) FULL ON (PWM) 1.5			
BU24036MWV	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) μ-step (class-D) 2.0	DCM (5ch) FULL ON (PWM+Speed control) 1.0	STM (3, 4ch) μ-step (class-D) 1.5	VCM (6ch) constant current 1.0	—	3-wire serial	1024	UQFN040V5050 5.0×5.0, H=Max 1.0
			e.g. 2		DCM (3ch) FULL ON (PWM+Speed control) 1.5	VCM (5ch) FULL ON (PWM)/constant current 1.0		VCM (4ch) FULL ON (PWM) 1.5			

STM : 步进电机, DCM : DC 电机, VCM : 音圈电机 (" Drive method examples of actuator " 为代表例, 可研讨其他使用方法。)

便携式相机模块用驱动器

单向型音圈电机用两线串行(I²C-Compatible)接口镜头驱动器

Part No.	Supply Voltage (V)	Applications	ch	Drive System	Driver Output Max Current (mA)	Driver Output Low Voltage (V)	Input I/F	Ring Compensation	Temperature Protection	Back side coating	Package (mm)
BU64243GWZ	2.3 to 4.8	Drive AF using voice coil motor	0.25	Constant current (±10%)	130	0.15 (V _{CC} =3V, I _O =100mA)	I ² C Fm compatible	ISRC	✓	with	UCSP35L1 0.77x1.3, H=Max 0.40
BU64244GWZ	2.3 to 4.8	Drive AF using voice coil motor	0.25	Constant current (±10%)	130	0.15 (V _{CC} =3V, I _O =100mA)	I ² C Fm compatible	ISRC	✓	with	UCSP35L1 0.77x1.3, H=Max 0.36
BU64291GWZ	2.3 to 4.8	Drive AF using voice coil motor	0.5	Constant current (±5%)	100	0.25 (V _{CC} =3V, I _O =100mA)	I ² C Fm compatible	ISRC	✓	without	UCSP30L1 0.77x1.37, H=Max 0.33
BU64292GWZ	2.5 to 3.6	Drive AF using voice coil motor	0.25	Constant current (±5%)	125	0.28 (V _{DD} =3V, I _O =100mA)	I ² C Fm+ compatible	ISRC	✓	without	UCSP25L1 0.68x1.08, H=Max 0.30
BU64981AGWZ	2.3 to 4.8	Drive AF using voice coil motor	0.25	Constant current (±5%)	100	0.25 (V _{CC} =3V, I _O =100mA)	I ² C Fm+ compatible	ISRC	✓	with	UCSP30L1A 0.72x1.13, H=Max 0.33
BU64982GWZ	2.5 to 3.6	Drive AF using voice coil motor	0.25	Constant current (±5%)	125	0.28 (V _{DD} =3V, I _O =100mA)	I ² C Fm+ compatible	ISRC	✓	with	UCSP30L1A 0.68x1.08, H=Max 0.33

双向型音圈电机用两线串行(I²C-Compatible)接口镜头驱动器

Part No.	Supply Voltage (V)	Applications	ch	Drive System	Driver Output Max Current (A)	Driver Output ON Resistance (Ω)	Input I/F	Ring Compensation	Temperature Protection	Back side coating	Package (mm)
BU64295GWZ	2.3 to 4.8	Drive AF using voice coil motor	1	Constant current (±5%)	±100	2.0 (V _{DD} =3V)	I ² C Fm compatible	ISRC	✓	without	UCSP30L1 0.77x1.2, H=Max 0.33
BU64296GWX	2.3 to 4.8	Drive AF using voice coil motor	1	Constant current (±5%)	±100	2.0 (V _{DD} =3V)	I ² C Fm compatible	ISRC	✓	without	UCSP16X1 0.77x1.2, H=Max 0.20
BU64297GWZ	2.3 to 4.8	Drive AF using voice coil motor	1	Constant current (±5%)	±100	2.0 (V _{DD} =3V)	I ² C Fm compatible	ISRC	✓	with	UCSP35L1 0.77x1.2, H=Max 0.36
BU64253GWZ	2.5 to 4.5	Drive AF using voice coil motor	1	Constant current (±5%)	±100	3.2 (V _{DD} =3V)	I ² C Fm+ compatible	ISRC	✓	with	UCSP30L1A 0.72x1.13, H=Max 0.33
BU64985GWZ	1.6 to 1.98	Drive AF using voice coil motor	1	Constant current (±5%)	±60	1.3 (V _{DD} =1.8V)	I ² C Fm+ compatible	ISRC	✓	with	UCSP35L1 0.77x1.2, H=Max 0.36
BU64987GWZ	1.6 to 1.98	Drive AF using voice coil motor	1	Constant current (±5%)	±100	1.3 (V _{DD} =1.8V)	I ² C Fm+ compatible	ISRC	✓	with	UCSP35L1 0.77x1.2, H=Max 0.36

压电执行机构用两线串行(I²C-Compatible)接口镜头驱动器

Part No.	Supply Voltage (V)	Applications	ch	Drive System	Driver Output Max Current (mA)	Driver Output ON Resistance (Ω)	Input I/F	Base Clock	Temperature Protection	Power Save Function	Back side coating	Package (mm)
BU64562GWZ	2.3 to 4.8	e.g. 1 Drive AF using piezo actuator	1	FULL ON	500	1.4 (V _{CC} =3V)	I ² C Fm compatible	Built-in 15MHz	✓	✓	without	UCSP30L1 1.90x0.77, H=Max 0.33
		e.g. 2 Drive Zoom using piezo actuator										

步进电机用并行接口镜头驱动器

Part No.	Supply Voltage (V)	Applications	ch	Drive System	Driver Output Max Current (mA)	Driver Output ON Resistance (Ω)	Input I/F	Input Mode Selection Terminal	Built-In Wave Sloping Comparator	Temperature Protection	Power Save Function	Back side coating	Package (mm)
BD6360GUL	2.3 to 5.5	e.g. 1 Drive AF using piezo actuator e.g. 2 Drive Zoom using piezo actuator	2	FULL ON	500	1.0 (V _{CC} =3V, I _O =0.4A)	Parallel	✓	✓	✓	✓	with	VCSP50L2 2.1x2.1, H=Max 0.55

LED驱动器

LED驱动器

P.77

LED驱动器

升压LED驱动器

外置FET 白色LED驱动器

Part No.	Supply Voltage (V)	No. of LEDs	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD6583MUV-A	2.7 to 22.0	Max 72 12series×6strings in parallel (V _F restrictions exist)	Max 43.0	1	PWM signal from the PWMPW/PWM DRV terminal Resistance switching at the ISET terminal	Pin logic setting	VQFN024V4040
BD9486F	9 to 18	Max About 120 120series×1string in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SOP16
BD9411F	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP18
BD9413F	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP18
BD9483F	11 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SOP24
BD9483FV	11 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SSOP-B24
BD9416F	9 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP24
BD9416FS	9 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SSOP-A24
BD9479FV	9 to 35	Max About 96 12series×8strings in parallel	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SSOP-B40
BD9408FV	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 2.00	PWM signal Analog signal	Pin logic setting	SSOP-B14
BD9409F	11.5 to 35.0	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP16
BD9420F	9 to 35	Max 72 12series×6strings in parallel (V _F restrictions exist)	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP28
BD9421F	9 to 35	Max 72 12series×6strings in parallel (V _F restrictions exist)	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP24

内置FET 白色LED驱动器

BD60A00NUX	2.7 to 5.5	Max 10 10series×1string in parallel	Max 40.0	0.6	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VSON008X2030
BD60A60NUX	2.7 to 5.5	Max 6 6series×1string in parallel	Max 26.0	0.6	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VSON008X2030
BD65B60GWL	2.7 to 5.5	Max 16 8series×2strings in parallel	Max 28.5	1.1/0.6	I ² C BUS PWM signal Resistance switching at the ISET terminal	I ² C BUS + PWM	UCSP50L1 1.4×1.8, H=Max 0.55
BD6586MUV	2.7 to 5.5	Max 24 6series×4strings in parallel	Max 24.0	1	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VQFN024V4040
BD65D00MUV	6 to 27	Max 40 10series×4strings in parallel	Internal FET Max 40.0 External FET Max 80.0	0.6 to 1.6	PWM signal Resistance switching at the ISET terminal Analog voltage control	Pin logic setting	VQFN028V5050
BD6142AMUV	4.2 to 27	Max 80 10series×8strings in parallel	Max 41.0	0.6 to 1.6	PWM signal Resistance switching at the ISET terminal Analog voltage control	Pin logic setting	VQFN024V4040
BD9394EFV	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	HTSSOP-B24
BD9394FP	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	HSOP20
BD93941EFV	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	HTSSOP-B20
BD93941FP	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	HSOP20
BD93942F	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP16
BD9470AEFV	9 to 35	Max 72 18series×4strings in parallel	Max 40.0	0.1 to 0.5	PWM signal	Pin logic setting	HTSSOP-B28
BD9470AFM	9 to 35	Max 72 18series×4strings in parallel	Max 40.0	0.1 to 0.5	PWM signal	Pin logic setting	HSOP-M28
BD9397EFV	9 to 35	Max 84 14series×6strings in parallel	Max 50.0	0.10 to 1.25	PWM signal Analog signal	Pin logic setting	HTSSOP-B40
BD9422EFV	9 to 35	Max 84 14series×6strings in parallel	Max 60.0	0.10 to 1.25	PWM signal Analog signal	Pin logic setting I ² C	HTSSOP-B40

内置FET 同步整流方式 白色LED驱动器

BD6071HFN	2.7 to 5.5	Max 3 3series×1string in parallel	Max 14.0	1	PWM signal from EN terminal	—	HSOP8
BD6072HFN	2.7 to 5.5	Max 4 4series×1string in parallel	Max 18.0	1	PWM signal from EN terminal	—	HSOP8

LED相机闪光灯驱动器

Part No.	Supply Voltage (V)	Number of LED	Output Voltage (V)	Output Current	Switching Frequency (MHz)	Control Interface	Package (mm)
BD6164GUT	2.7 to 4.5	1 (Large current LED)	Max 4.7	52, 72mA (Torch mode) 260, 280, 300, 320mA (Flash mode)	4	I ² C BUS	VCSP60N1 1.5×1.1, H=Max 0.675
BD7757MWX	2.7 to 5.0	Max 2 1 to 2series×1string in parallel (V _F restrictions exist) (large current LED)	Max 5.1	0 to 1.5A	2	UPIC*	USON014X3020

*UPIC: Uni-Port Interface Control

升压LED驱动器

车前灯用LED驱动器

Part No.	Supply Voltage (V)	Application	ch	Maximum Input Voltage (V)	Output Curren	Dimmer Mode	DC/DC	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18351EFV-M	4.5 to 65.0	Head Lamp/DRL	1	65	Depend on Extra parts	PWM/ Analog	Boost	-40 to +125	HTSSOP-B24	FSs	YES
BD18353EFV-M	5 to 65					PWM/ Analog			HTSSOP-B20	FSs	YES
BD18353MUF-M	5 to 65					1, 2			VQFN20FV3535	FSs	YES

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

降压LED驱动器

DC/DC转换器型 降压LED照明驱动器

Part No.	Supply Voltage (V)	Switching Terminal Voltage (V)	Ron (Ω)	Operating Frequency (kHz)	Over Current Protection	Package
BM531Q11	9.0 to 35.0	250	0.93 (Typ)	Max 440	✓	DIP7AK
BD94062F	10.5 to 35.0	—	—	Max 800	✓	SOP16

PFC直流谐振型大屏幕用白色LED驱动器

Part No.	Supply Voltage (V)	Drive Method	Oscillation Frequency Variable (kHz)	Primary Brightness Control Method	Control Interface	Package
BD92111F	8.0 to 18.0	Half Bridge	30 to 200	PWM signal	Pin logic setting	SOP18
BD94121F	9.0 to 18.0	Half Bridge	30 to 300	PWM signal/Analog signal	Pin logic setting	SOP18
BD94122F	9.0 to 18.0	Half Bridge	30 to 300	PWM signal/Analog signal	Pin logic setting	SOP18

车前灯用LED驱动器

Part No.	Supply Voltage (V)	Application	ch	Maximum Input Voltage (V)	Output Curren	Dimmer Mode	DC/DC	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18395EFV-M	4.5 to 70.0	Head Lamp/DRL	1	70	2A	PWM/ Analog	Buck	-40 to +125	HTSSOP-B20	FSs	YES

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

升降压LED驱动器

白色LED驱动器

Part No.	Power Supply (V)	Boost FET	ch	Output Voltage (V)	Output Current (mA)	Switching Frequency (MHz)	PWM Dimming Ratio	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD81A24EFV-M	4.5 to 35.0	Internal	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	HTSSOP-B28	FSs	YES
BD81A24MUV-M	4.5 to 35.0	Internal	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	VQFN28SV5050	FSs	YES
BD81A24MUF-M	4.5 to 35.0	Internal	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	VQFN28FV5050	FSs	YES
BD81A44EFV-M	4.5 to 35.0	External	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	HTSSOP-B28	FSs	YES
BD81A44MUV-M	4.5 to 35.0	External	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	VQFN28SV5050	FSs	YES
BD81A44MUF-M	4.5 to 35.0	External	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	VQFN28FV5050	FSs	YES
BD81A74EFV-M	4.5 to 35.0	External	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	HTSSOP-B28	FSs	YES
BD81A74MUV-M	4.5 to 35.0	External	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	VQFN28SV5050	FSs	YES
BD81A76EFV-M	4.5 to 35.0	External	6	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	HTSSOP-B30	FSs	YES

车前灯用LED驱动器

Part No.	Power Supply (V)	Application	ch	Rated Voltage (V)	Output Current	Dimmer Mode	DC/DC	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8381AEFV-M	5 to 30	Head Lamp/DRL	1	50	Depend on extraparts	PWM/DC	Buck-Boost, Boost, Buck	-40 to +125	HTSSOP-B28	FSs	YES

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照明用LED驱动器

650V LED照明用AC/DC转换器

Part No.	Supply Voltage (V)	Input AC Voltage (Vac)	Built-in PFC Function	Built-in MOSFET	LED Average Current (mA)	Switching Frequency (kHz)	Package
BM520Q15F	8.9 to 26.0	80 to 275	—	—	up to 200	20 to 200	SOP8
BM521Q25F	8.9 to 25.0	80 to 275	✓	✓	up to 200	20 to 300	SOP8
BD521GOFJ	8.9 to 25.0	80 to 275	✓	—	—	20 to 300	SOP-J8

无需电感(电荷泵)LED驱动器

白色LED驱动器

Part No.	Supply Voltage (V)	No. of LEDs	Charge Pump Step-up Circuit			Primary Brightness Control Method	Control Interface	Package
			Output Voltage (V)	Output Current (mA)	Pump Frequency			
BD1604MUV	2.7 to 5.5	1 to 4	Max 4.5	120	1MHz	PWM control via EN terminal Resistance switching at ISET terminal	Pin logic setting	VQFN016V3030
BD2606MUV	2.7 to 5.5	1 to 6	Max 4.7	120	250kHz/1kHz	Built-in 64-step current DAC (0.5 to 32.0mA)	I²C BUS	SQFN016V4040

时序转向灯专用LED Bypass开关(矩阵LED控制器)

时序亮灯控制

Part No.	Supply Voltage (V)	ch	Bypass Switch ON Resistance (mΩ)	Max Current (A)	Maximum Channel Voltage	Maximum LED String Voltage (V)	Maximum Number of IC Serial Connections	Lighting Mode	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18362EFV-M	5.5 to 60.0	8	230	1	9	48	2	Sequential/ Hazard	-40 to +125	HTSSOP-B28	FSs	YES

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*1 “ComfySIL™功能安全类别” 的详情请参阅封二。

恒流/串入并出LED驱动器

并行输出 LED驱动器

Part No.	Supply Voltage (V)	No. of LEDs	Constant Current Driver				Control Interface	Package
			Max Current Setting Method	Max Current	Channel-to-Channel Matching	Brightness Control		
BD1754HFN	2.7 to 5.5	1 to 4 (Parallel Connection)	Resistance change at ISET terminal	32mA (at an ISET resistance of 120kΩ)	Max 3% (at 1V LED pin voltage)	Built-in 64-step current DAC	UPIC*2	HS0N8
BD2802GU	2.7 to 5.5	6 (RGB 2ch)	Resistance change at ISET terminal	30.48mA (at an ISET resistance of 120kΩ)	Max 10% (at 1V LED pin voltage)	Built-in 128-step current DAC	I ² C BUS	VCSP85H2
BD2812GU	2.7 to 5.5	6 (RGB 2ch)	Resistance change at ISET terminal	30.48mA (at an ISET resistance of 120kΩ)	Max 10% (at 1V LED pin voltage)	Built-in 128-step current DAC/ Inductorless (Charge Pump)	I ² C BUS	VCSP85H3

并行输出 车载用LED驱动器

Part No.	Supply Voltage (V)	Output Voltage (V)	No. of Output (ch)	Output Method	Max LED Current	Each Output Format	Other	Control Method	Max Clock Frequency (MHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8379EFV-M	3.0 to 5.5	35	12	Open Drain	50mA/ch	ON/OFF	—	SPI	1.25	HTSSOP-B20	FSs	YES
BD2808MUV-M	3.0 to 5.5	20	RGBx8 (24ch)	Constant Current	50mA/ch	Built-in 64-step current DAC for RGB	Built-in 256-step PWM control for all channels	2-Wire Serial	1.0	VQFN48MCOV070	FSs	YES
BD8388FV-M	3.0 to 5.5	40	8	Open Drain	50mA/ch	ON/OFF	—	SPI	1.25	SSOP-B16	FSs	YES
BD8389FV-M	3.0 to 5.5	40	12	Open Drain	50mA/ch	ON/OFF	—	SPI	1.25	SSOP-B20	FSs	YES

点阵LED驱动器

Part No.	Supply Voltage (V)	LED Matrix	Max LED Current	Built-in Pattern		Matrix Data RAM	Mobile Light	PWM Dimming (step)	Current Setting (step)	Interface	Max Clock Frequency	Package (mm)
				Scroll	Slope							
BU26507GUL	2.7 to 5.5	5x6 30dots	42.5mA/Line	✓	✓	2pages	—	64	16	I ² C BUS/SPI (2 address/—)	400kHz/13MHz	VCSP50L2 2.5x2.5, H=Max 0.55
BD26503GUL	2.7 to 5.5	7x17 119dots	30mA/Line	✓	✓	2pages	—	64	16	I ² C BUS/SPI (2 address/—)	400kHz/13MHz	VCSP50L3 3.6x3.6, H=Max 0.55
BD26503KS2	2.7 to 5.5	7x17 119dots	30mA/Line	✓	✓	2pages	—	64	16	I ² C BUS/SPI (2 address/—)	400kHz/13MHz	SQFP-T52
BU16501KS2	2.7 to 5.5	8x16 128dots	42.5mA/Line	—	—	1page	—	64	16	I ² C BUS/SPI (2 address/—)	400kHz/13MHz	SQFP-T52

LED源极驱动器

Part No.	Supply Voltage (V)	Application	ch	Driver	Maximum Input Voltage (V)	Maximum Output Current (mA)	Dimmer Mode	Accuracy of Current (%)	ISINK Terminal LED Open Detection Voltage (V)	Disable LED Open Detection Voltage (V)	Energy Sharing Control Voltage (V) (Typ)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18340FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/ DC (±5%)	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	SSOP-B16	FSs	YES
BD18341FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/ DC (±12%)	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	SSOP-B16	FSs	YES
BD18342FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	SSOP-B16	FSs	YES
BD18343FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	External PWM signal	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	SSOP-B16	FSs	YES
BD18345EFV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/DC	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	HTSSOP-B20	FSs	YES
New BD18326NUF-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	1	Internal	40	400mA (DC) 600mA (ON Duty: 50%)	PWM/DC	±10 (Output current: 100 to 240mA) (T _a =-40 to +150°C) ±5 (Output current: 240 to 600mA) (T _a =-40 to +150°C)	5.8	11.0	—	-40 to +150	VSON10FV3030	FSs	YES
BD18336NUF-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	1	Internal	40	400mA (DC) 600mA (ON Duty: 50%)	PWM/DC	±10 (Output current: 100 to 240mA) (T _a =-40 to +150°C) ±5 (Output current: 240 to 600mA) (T _a =-40 to +150°C)	4.1	11.0	—	-40 to +150	VSON10FV3030	FSs	YES
BD18337EFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ch	PWM	±10 (Output current: 50 to 100mA) (T _a =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T _a =-40 to +125°C)	—	11.0	2.0	-40 to +125	HTSSOP-B16	FSs	YES
New BD18347AEFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ch	PWM	±10 (Output current: 50 to 100mA) (T _a =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T _a =-40 to +125°C)	—	7.65	1.5	-40 to +125	HTSSOP-B16	FSs	YES
BD18347EFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ch	PWM	±10 (Output current: 50 to 100mA) (T _a =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T _a =-40 to +125°C)	—	7.65	2.0	-40 to +125	HTSSOP-B16	FSs	YES
New BD18327EFV-M	6.0 to 18.0	2 wheeler Turn Indicator	1	Internal	50	1.5A	PWM Load Switch Controller	—	—	—	—	-40 to +125	HTSSOP-B20	FSs	YES
BD8372EFJ-M	5.5 to 40.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	200	High Current/ Low Current	±3 (T _a =25°C)	—	—	—	-40 to +125	HTSOP-J8	FSs	YES
BD8372HFP-M	5.5 to 40.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	200	High Current/ Low Current	±3 (T _a =25°C)	—	—	—	-40 to +125	HRP7	FSs	YES
BD8374EFJ-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T _a =25°C)	—	—	—	-40 to +125	HTSOP-J8	FSs	YES
BD8374HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T _a =25°C)	—	—	—	-40 to +125	HRP7	FSs	YES
BD83732HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM/DC	±3 (T _a =25°C)	—	7.65	—	-40 to +125	HRP7	FSs	YES
BD83733HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM/DC	±3 (T _a =25°C)	—	11.0	—	-40 to +125	HRP7	FSs	YES
BD83740HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T _a =25°C)	—	—	—	-40 to +125	HRP7	FSs	YES
BD83740EFJ-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T _a =25°C)	—	—	—	-40 to +125	HTSOP-J8	FSs	YES

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*1 "ComfySIL™功能安全类别" 的详细请参阅封二。

*2 UPIC: Uni-Port Interface Control

显示用驱动器

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TN/STN液晶显示用驱动器系列

LCD用 通用/段码驱动器

低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (°C)	Duty	Bias	I/F	EVR	GPO	Independent Blink	LED Driver (port)	PWM Gen.	Keyscan	Package
		seg.	com.	I/F Power Supply (V _{DD})	LCD Power Supply (VLCD)											
BU9796AMUV	48	12	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	2wire	—	—	—	—	—	—	VQFN024V4040
BU9796AFS	80	20	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	2wire	—	—	—	—	—	—	SSOP-A32
BU97941FV	104	26	4	1.8 to 3.6	2.7 to 5.5	-40 to +85	1/4, 1/3, Static	1/3	3wire	—	—	—	4	—	—	SSOP-B40
BU9795AFV	108	27	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	3wire	—	—	—	—	—	—	SSOP-B40
BU97930MUV	108	27	4	1.8 to 3.6	2.7 to 5.5	-40 to +85	1/4, 1/3, Static	1/3	3wire	—	4port	✓	1	1ch 8bit	—	VQFN040V6060
BU97931FV	112	28	4	1.8 to 3.6	2.7 to 5.5	-40 to +85	1/4, 1/3, Static	1/3	3wire	—	5port	✓	1	1ch 8bit	—	SSOP-B40
BU97960MUV	120	15	8	2.5 to 6.0	2.5 to 6.0	-40 to +85	1/8, 1/4	1/4, 1/3	2wire	✓	—	—	—	—	—	VQFN028V5050
BU9795BKV	140	35	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	3wire	—	—	—	—	—	—	VQFP48C
BU9795ZKS2	140	35	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	3wire	—	—	—	—	—	—	SQFP-T52
BU9797AFUV	144	36	4	2.5 to 5.5		-40 to +85	1/4	1/3	2wire	—	—	—	—	—	—	TSSOP-C48V
BU97981MUV	168	42	4	1.8 to 3.6	3.3 to 5.5	-30 to +75	1/4, 1/3, Static	1/3	3wire	—	27port	✓	3	2ch 12bit	—	VQFN56AV8080
BU97981KV	196	49	4	1.8 to 3.6	3.3 to 5.5	-30 to +75	1/4, 1/3, Static	1/3	3wire	—	31port	✓	3	2ch 12bit	—	VQFP64
BU97981GU	196	49	4	1.8 to 3.6	3.3 to 5.5	-30 to +75	1/4, 1/3, Static	1/3	3wire	—	31port	✓	3	2ch 12bit	—	VBGA064T050A
BU9794AKV	200	50	4	2.5 to 5.5	2.5 to 5.5	-40 to +85	1/4	1/3, 1/2	3wire	—	—	—	—	—	—	VQFP64
BU9799KV	200	50	4	2.5 to 5.5	2.5 to 5.5	-40 to +85	1/4	1/3, 1/2	2wire	✓	—	—	—	—	—	VQFP64
BU97501KV	204	51	4	2.7 to 6.0	4.5 to 6.0	-40 to +85	1/4, 1/3	1/3, 1/2	3wire+KEYOUT	—	4port	—	—	—	5×6 Max 30Key	VQFP64
BU97950AFUV	280	35	8	2.5 to 6.0	2.5 to 6.0	-40 to +85	1/8, 1/4	1/4, 1/3	2wire	✓	—	—	—	—	—	TSSOP-C48V
BU97530KVT	445	89	5	2.7 to 6.0		-40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire+KEYOUT	✓	9port (9ch PWM)	—	—	9ch 8bit	5×6 Max 30Key	TQFP100V

车载用低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (°C)	Duty	Bias	I/F	EVR	GPO	Independent Blink	LED Driver	PWM Gen.	Keyscan	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		seg.	com.	I/F Power Supply (V _{cc})	LCD Power Supply (V _{LCD})													
BU97601FV-M	116	29	4	2.7 to 6.0		-40 to +85	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	—	—	6ch 9bit	4x5 Max 20Key	SSOP-B40	FSs	YES
BU9797FUV-M	144	36	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	2wire	—	—	—	—	—	—	TSSOP-C48V	FSs	YES
BU97510CKV-M	216	54	4	2.7 to 6.0		-40 to +85	1/4, 1/3	1/3, 1/2	3wire	—	6port (6ch PWM)	—	—	6ch 6bit	—	VQFP64	FSs	YES
BU97520AKV-M	276	69	4	2.7 to 6.0		-40 to +85	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	—	6port (6ch PWM)	—	—	6ch 8bit	5x6 Max 30Key	VQFP80	FSs	YES
BU97540KV-M	335	67	5	2.7 to 6.0		-40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	—	—	9ch 9bit	5x6 Max 30Key	VQFP80	FSs	YES
BU97530KVT-M	445	89	5	2.7 to 6.0		-40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	—	—	9ch 8bit	5x6 Max 30Key	TQFP100V	FSs	YES
BU97550KV-M	528	66	8	2.7 to 6.0		-40 to +85	1/8, 1/7, 1/5, 1/4, 1/3, Static	1/4, 1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	—	—	9ch 9bit	5x6 Max 30Key	VQFP80	FSs	YES
BU91795MUF-M	48	12	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	VQFN24FV4040	FSs	YES
BU91796BMUF-M	80	20	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	VQFN32FBV050	FSs	YES
BU91796FS-M	80	20	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	SSOP-A32	FSs	YES
BU91600FV-M	116	29	4	2.7 to 6.0		-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	—	—	6ch 9bit	4x5 Max 20Key	SSOP-B40	FSs	YES
BU91797MUF-M	144	36	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	VQFN48FV7070	FSs	YES
BU91797FUV-M	144	36	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	TSSOP-C48V	FSs	YES
BU91600FUV-M	148	37	4	2.7 to 6.0		-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	—	—	6ch 9bit	4x5 Max 20Key	TSSOP-C48V	FSs	YES
BU91799KV-M	200	50	4	2.5 to 6.0	2.5 to 6.0	-40 to +105	1/4	1/3	2wire	✓	—	—	—	—	—	VQFP64	FSs	YES
BU91501KV-M	204	51	4	2.7 to 6.0	4.5 to 6.0	-40 to +105	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	—	4port	—	—	—	5x6 Max 30Key	VQFP64	FSs	YES
BU91510KV-M	216	54	4	2.7 to 6.0		-40 to +105	1/4, 1/3	1/3, 1/2	3wire	—	6port (6ch PWM)	—	—	6ch 6bit	—	VQFP64	FSs	YES
BU91520KV-M	276	69	4	2.7 to 6.0		-40 to +105	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	—	6port (6ch PWM)	—	—	6ch 8bit	5x6 Max 30Key	VQFP80	FSs	YES
BU91530KVT-M	445	89	5	2.7 to 6.0		-40 to +105	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	—	—	9ch 8bit	5x6 Max 30Key	TQFP100V	FSs	YES
BU91R63CH-M	176	44	4	2.7 to 6.0	2.7 to 6.0	-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire	✓	—	—	—	—	—	Au Bump Chip	FSs	YES
BU91R64CH-M	320	80	4	2.7 to 6.0	2.7 to 6.0	-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire/3wire	✓	—	✓	—	—	—	Au Bump Chip	FSs	YES
BU91R65CH-M	640	160	4	2.7 to 6.0	2.7 to 6.0	-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire/3wire	✓	—	✓	—	—	—	Au Bump Chip	FSs	YES

工业设备用低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (°C)	Duty	Bias	Interface	EVR	GPO	Independent Blink	LED Driver (port)	PWM Gen.	Keyscan	Package
		seg.	com.	I/F Power Supply (V _{cc})	LCD Power Supply (V _{LCD})											
BU97941FV-LB	104	26	4	1.8 to 3.6	2.7 to 5.5	-40 to +85	1/4, 1/3, Static	1/3	3wire	—	—	—	4	—	—	SSOP-B40
BU9795AFV-LB	108	27	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	3wire	—	—	—	—	—	—	SSOP-B40
BU97931FV-LB	112	28	4	1.8 to 3.6	2.7 to 5.5	-40 to +85	1/4, 1/3, Static	1/3	3wire	—	5port	✓	1	1ch 8bit	—	SSOP-B40

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*1 “ComfySIL™功能安全类别”的详情请参阅封二。

图形LCD用 控制器驱动器

(LAPIS Technology产品)

LCD控制器驱动器

Part No.	Max No. of Segment Outputs	Max Driving Display Size	Logic Supply Voltage (V)	Driver Supply Voltage (V)	Operating Temperature (°C)	Feature	Package	Halogen Free Support*1	Automotive Grade*2
ML9058E	132	132×65 dots	3.7 to 5.5	6 to 18	−40 to +85	Integrated RAM/ Boost circuit	Au bump chip	✓	YES
ML9445A	180	180×65 dots	2.7 to 5.5	6 to 18.5	−40 to +105	Integrated RAM/ Boost circuit/PWM	Au bump chip	✓	YES
ML9092-01	56	56×10 dots	4.5 to 5.5	4.5 to 16.5	−40 to +85	Integrated RAM/ Boost circuit	P-TQFP100 -1414-0.50-ZK6	✓	YES
ML9092-02	60	60×10 dots			−40 to +85	Integrated RAM/ Boost circuit	P-TQFP100 -1414-0.50-ZK6	✓	YES
ML9092-03						Integrated RAM	P-TQFP100 -1414-0.50-ZK6		
ML9092-04						Integrated RAM/PWM	P-TQFP100 -1414-0.50-ZK6		

*1 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100，请咨询销售人员。

低Duty LCD用 控制器驱动器

(LAPIS Technology产品)

LCD控制器驱动器(封装品)														
Part No.	Max No. of Segment Outputs	Max No. of Driving Segments					Internal Oscillation Frame Frequency (Hz)	Logic Supply Voltage (V)	Driver Supply Voltage (V)	Operating Temperature (°C)	Feature	Package	Halogen Free Support*1	Automotive Grade*2
		static	1/2	1/3	1/4	1/5								
ML9470-12	80	80	160	—	—	—	—	3.0 to 5.5 (single)		-40 to +105	Supports external clock input	P-QFP100-1420-0.65-BK6	✓	YES
ML9471		—	—	240	320	400	—					P-TQFP100-1414-0.50-ZK6	✓	YES
ML9473	60	—	—	180	240	300	—				P-TQFP80-1212-0.50-ZK6	✓	YES	
ML9477	32	—	—	96	128	—	—	3V±10%/5V±10%	3.5 to 5.5	-40 to +105	Supports external clock input/ Bias generator built in/ EMS countermeasure built in	P-TQFP48-0707-0.50-ZK6	✓	YES
ML9484	50	50	100	150	200	—	—	2.7 to 5.5	4.5 to 5.5		Supports external clock input/ Bias generator built in	P-TQFP64-1010-0.50-ZK6	✓	YES
LCD控制器驱动器(金凸点品)														
ML9480	40	40	80	120	160	—	65/75/85/95/ 130/150/170/190 command switching	2.7 to 5.5	4.5 to 5.5	-40 to +105	Supports external clock input/ Bias generator built in/ EMS countermeasure built in/ No external parts	Au bump chip	✓	YES
ML9478C	80	80	160	240	320	—	65/75/85/95 command switching					Au bump chip	✓	YES
ML9479E	160	160	320	480	640	—						Au bump chip	✓	YES
ML9488	80	80	160	240	320	—	130/150/170/190 command switching				Supports external clock input/ Bias generator built in	Au bump chip	✓	YES
ML9489	160	160	320	480	640	—						Au bump chip	✓	YES

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*2 关于AEC-Q100，请咨询销售人员。

显示用驱动器

车载时钟驱动器

(LAPIS Technology产品)

车载时钟									
Part No.	Display Duty	VFD Driving Voltage (V)	Logic Supply Voltage (V)	Operating Temperature (°C)	Supply Current (Max)	No. of Digit	Package	Halogen Free Support*1	Automotive Grade*2
ML9298	1/2	4.0 to 18	No need	-40 to +85	0.6mA	4digits×1line and col.	P-SSOP32 -430-1.00-K6	✓	YES
ML9098B	Static, 1/2	3.0 to 5.5	3.0 to 5.5	-40 to +105		4digits×1line and col., AM, PM	P-TQFP48 -0707-0.50-ZK6	—	YES

*1 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100，请咨询销售人员。

传感器/MEMS

霍尔IC	P.83	地磁传感器IC	P.83
电流传感器IC	P.83	照度传感器IC	P.84
颜色传感器IC	P.84	光学式脉搏传感器IC	P.84
气压传感器IC	P.84	温度传感器IC	P.84
震动传感器用放大器	P.85	加速度传感器	P.85

霍尔IC

两极检测霍尔IC 检测出S极和N极时，输出ON(低电平有效)

Part No.	Supply Voltage (V)	Operate Point (mT)		Pulse Drive Period (ms)	Supply Current (Avg.) (μA)	Output	Operating Temperature (°C)	Package (mm)
		S-pole	N-pole					
BD7411G	4.5 to 5.5	+3.4	-3.4	—	2.0 (mA)	CMOS	-40 to +85	SSOP5

两极检测(极性判别输出) 霍尔IC 具有S极和N极检测用2个输出，能够辨别极性

BU52272NUZ	1.65 to 3.60	+2.4	-2.4	50	4.4	CMOS (2 Outputs: S, N pole)	-40 to +85	VSON04Z1114A 1.1x1.4, H=Max 0.4
BU52072GWZ	1.65 to 3.60	+2.4	-2.4	50	4.4	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52073GWZ	1.65 to 3.60	+4.1	-4.1	50	4.4	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52074GWZ	1.65 to 3.60	+6.3	-6.3	50	4.4	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52075GWZ	1.65 to 3.60	+9.5	-9.5	50	5.0	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
New BU52777GWZ	2.5 to 4.5	+15.0	-15.0	50	1.7	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52077GWZ	1.65 to 3.60	+15.0	-15.0	50	5.0	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4
BU52078GWZ	1.65 to 3.60	+24.0	-24.0	50	5.0	CMOS (2 Outputs: S, N pole)	-40 to +85	UCSP35L1 0.8x0.8, H=Max 0.4

地磁传感器IC

三轴数字地磁传感器IC

Part No.	Supply Voltage (V)	Magnetic Measurement (μT)	Magnetic Sensitivity (μT/LSB)	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package (mm)
BM1422AGMV	1.7 to 3.6	±1,200	0.042	150	I ² C	-40 to +85	MLGA010V020A 2.0x2.0, H=Max 1.0

电流传感器IC

非接触式电流传感器IC

Part No.	Supply Voltage (V)	Magnetic Measurement (μT)	Magnetic Sensitivity (μT/LSB)	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package (mm)
BM14270AMUV-LB	2.7 to 5.5	±280	0.045	70	I ² C	-40 to +125	VQFN20QV3535 3.5x3.5, H=Max 1.0

照度传感器IC

电流输出型模拟照度传感器IC

Part No.	Supply Voltage (V)	Sensitivity Variations (%)	Detection Range (lx)	Sensitivity (μA/lx)	IR Cut	I/F	Operating Temperature (°C)	Package
BH1603FVC	2.4 to 5.5	±15	0 to 100,000	0.6	—	Linear Current Output (Source)	−40 to +85	WSOF6
BH1620FVC	2.4 to 5.5	±15	0 to 100,000	0.6	—	Linear Current Output (Source)	−40 to +85	WSOF5
BH1680FVC	2.4 to 5.5	±15	0 to 50,000	6	✓	Linear Current Output (Source)	−40 to +85	WSOF5
BH1682FVC	2.3 to 5.5	±3μA	1 to 55,000	—	✓	Logarithmic Current Output (Source)	−40 to +85	WSOF5

16bit串行输出型数字照度传感器IC

Part No.	Supply Voltage (V)	Sensitivity Variations (%)	Detection Range (lx)	Sensitivity (at 100ms) (lx/count)	IR Cut	I/F	Operating Temperature (°C)	Package
BH1721FVC	2.4 to 3.6	±15	0 to 65,000	1	—	I ² C	−40 to +85	WSOF5
BH1730FVC	2.4 to 3.6	±15	0 to 65,000	0.007	—	I ² C	−40 to +85	WSOF6
BU27030NUC	1.7 to 3.6	±15	0 to 20,000	0.0007	✓	I ² C	−40 to +85	WS0N008X2120

颜色传感器IC

16bit串行输出型数字颜色传感器IC

Part No.	Supply Voltage (V)	λ _p (nm)				Illuminance Measurement (lx)	High Sensitivity	IR Cut	Flicker detection	I/F	Operating Temperature (°C)	Package (mm)
		Red	Green	Blue	IR							
BH1749NUC	2.3 to 3.6	630	540	460	825	0 to 80,000	✓	✓	—	I ² C	−40 to +85	WS0N008X2120
BU27006MUC-Z	1.7 to 3.6	630	540	460	825	0 to 50,000	✓	✓	✓	I ² C	−40 to +85	WQFN12X2520A 2.5x2.0, H=Max 0.55

光学式脉搏传感器IC

光学式脉搏传感器IC

Part No.	Analog Supply Voltage (V)	IO Supply Voltage (V)	Sampling Frequency (Hz)	Red Light, IR Cut	I/F	Operating Temperature (°C)	Package (mm)
BH1790GLC	2.5 to 3.6	1.7 to 3.6	32/64	✓	I ² C	−20 to +85	WPGA010V28 2.8x2.8, H=Max 1.0
BH1792GLC	2.5 to 3.6	1.7 to 3.6	32/64/128/256/1,024	✓	I ² C	−20 to +85	WPGA010V28 2.8x2.8, H=Max 1.0

气压传感器IC

内置温度补偿功能数字气压传感器IC

New

Part No.	Supply Voltage (V)	Pressure Range (hPa)	Relative Pressure Accuracy (hPa)	Absolute Pressure Accuracy (hPa)	I/F	Operating Temperature (°C)	Waterproof	Package (mm)
BM1390GLV-Z	1.7 to 3.6	300 to 1,300	±0.06	±1	I ² C	−40 to +85	✓	RLGA10VG020T 2.0x2.0, H=Max 1.0

温度传感器IC

模拟输出温度传感器IC

Part No.	Supply Voltage (V)	Temperature Accuracy (°C)		Temperature Sensitivity (mV/°C)	Output Voltage (V) (T _s =+30°C, V _{DD} =3V)	Supply Current (μA)	Operating Temperature (°C)	Package
		T _s =+30°C	T _s =−30, +100°C					
BD1020HFV	2.4 to 5.5	±1.5	±2.5	−8.2	1.3	4.0	−30 to +100	HVSOF5

数字输出温度传感器IC

Part No.	Supply Voltage (V)	Temperature Accuracy (°C) T _s =−20 to +85°C	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package
BH1900NUX	2.7 to 3.6	±3	75	I ² C	−30 to +95	VSON008X2030

震动传感器用放大器

震动传感器用放大器						
Part No.	Supply Voltage (V)	Current Consumption (mA)	Notch Frequency (kHz)	Notch Attenuation Rate (dB)	Operating Temperature (°C)	Package
BD3852MUZ-Z	1.6 to 2.3	1.6 to 4.5	31.0	-23.0	-40 to +85	VQFN16Z3030A

加速度传感器

(Kionix产品)

3轴加速度传感器						
Part No.	Axis	Full-Scale Range	I/F Output	Current Consumption (μA)	Size, No. of Pins, Package	Features
KXTJ3-1057	3	User-selectable 2g, 4g, 8g, 16g	Digital I ² C	10 to 155	2×2×0.9mm, 12pin, LGA	User-configurable wakeup function.
KX132-1211	3	User-selectable 2g, 4g, 8g, 16g	Digital SPI/I ² C	0.53 to 148	2×2×0.9mm, 12pin, LGA	512B FIFO/Stream/Trigger buffer. Wide range of ODRs from 0.781Hz to 25.6kHz, Mechanical resonance frequency (-3dB) 4.2kHz (xy), 2.9kHz (z)
KX134-1211	3	User-selectable 8g, 16g, 32g, 64g	Digital SPI/I ² C	0.53 to 148	2×2×0.9mm, 12pin, LGA	512B FIFO/Stream/Trigger buffer. Wide range of ODRs from 0.781Hz to 25.6kHz, Mechanical resonance frequency (-3dB) 8.2kHz (x), 8.5kHz (y), 5.6kHz (z)

*非安全车载用途产品

无线LSI

工业设备用无线通信LSI

P.86

车载通信用LSI

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工业设备用无线通信LSI

特定小功率无线(Sub-GHz频段无线)

(LAPIS Technology产品)

数据发信专用LSI

Part No.	Support Standard	Frequency Band	Supply Voltage (V)	Modulation Method	FEC Mode	Control I/F	Transmission Rate	Transmission Output (dBm)	Reception Sensitivity	Operating Temperature (°C)	Input Clock	Package	Halogen Free Support*2
ML7386	ARIB STD-T67 RCR STD-30	426MHz band	1.8 to 3.6	2-FSK MSK	—	Synchronous serial (Control) DIO (DATA)	2.4kbps 4.8kbps 7.2kbps	10mW	—	-25 to +85	—	P-WQFN28 -0404-0.40-63	✓
ML7386B							—	1mW/ 10mW				P-WQFN28 -0404-0.40-63	✓

数据收发信LSI

ML7396D	ARIB STD-T108 EN300-220 IEEE802.15.4g	900 to 960MHz	1.8 to 3.6	2- (G) FSK (G) MSK	IEEE 802.15.4g compliant	Synchronous serial (Control) DIO (DATA)	to 50kbps 100kbps 150kbps 200kbps 400kbps	1mW/ 10mW/ 20mW	-107dBm [100kbps BER=0.1%] ¹⁾	-40 to +85	—	P-WQFN40 -0606-0.50-63	✓
ML7396E	EN300-220 EN1357-4:2011	750 to 900MHz					—	P-WQFN40 -0606-0.50-63	✓				
ML7344Jy	ARIB STD-T67 RCR STD-30	160 to 510MHz	1.8 to 3.6	2- (G) FSK (G) MSK	—		to 15kbps	1mW/ 10mW/ 20mW	-117dBm [4.8kbps BER=0.1%] ¹⁾		(C) rystal input y= (S) PX0 input y= (T) CX0 input	P-WQFN32 -0505-0.50-A63	✓
ML7344Cy	Q/GDW374.3		3.3 to 3.6 (100mW)					20mW/ 100mW	—			P-WQFN32 -0505-0.50-A63	✓
ML7406y	EN300-220 EN1357-4: 2011 IEEE802.15.4g	750 to 960MHz	2- (G) FSK (G) MSK	—	to 500kbps		—	-106dBm [100kbps BER=0.1%] ¹⁾	—			P-WQFN32 -0505-0.50-A63	✓
ML7345	ARIB STD-T67 ARIB STD-T108 RCR STD-30	160 to 960MHz	1.8 to 3.6	2- (G) FSK (G) MSK 4- (G) FSK	—		1mW/ 10mW/ 20mW	-123dBm [2.4kbps BER=1%] ¹⁾	—			P-WQFN32 -0505-0.50-A63	✓
ML7345D	EN300-220 EN13757-4: 2013 IEEE802.15.4g	315 to 960MHz						-119.5dBm [2.4kbps BER=1%] ¹⁾	—		P-WQFN32 -0505-0.50-A63	✓	
ML7345C	Q/GDW374.3	470 to 510MHz						3.3 to 3.6 (100mW)	20mW/ 100mW		-123dBm [2.4kbps BER=1%] ¹⁾	—	P-WQFN32 -0505-0.50-A63
ML7414	ARIB STD-T67 ARIB STD-T108 Sigfox® (Rev 2.E) RCR STD-30 EN300-220 EN13757-4: 2013 IEEE802.15.4g	315 to 960MHz	1.8 to 3.6	2- (G) FSK (G) MSK 4- (G) FSK BPSK (TX only)	IEEE 802.15.4g compliant		—	1mW/ 10mW/ 20mW	-106dBm [100kbps BER=1%] ¹⁾		—	P-WQFN32 -0505-0.50-A63	✓

*1 BER是Bit Error Rate的缩写。

*2 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

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LPWA无线

(LAPIS Technology产品)

数据收发信LSI

Part No.	Supported Standard	Frequency Band	Supply Voltage (V)	Modulation Method	FEC Mode	Control Interface	CPU core	Memory resources	Transmission Rate	Transmission Output (dBm)	Reception Sensitivity	Operating Temperature (°C)	Package	Halogen Free Support*2
ML7404	ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220 EN13757-4:2013 Sigfox® (Rev 2.E) IEEE802.15.4k IEEE802.15.4g	315 to 960MHz	1.8 to 3.6	2-(G) FSK (G) MSK 4-(G) MSK BPSK (DSSS)	IEEE 802.15.4k compliant	Synchronous serial (Control) DIO (DATA)	—	—	to 100kbps (xFSK) 80k to 200kcps (DSSS)	1mW/ 10mW/ 20mW	-119.5dBm [2.4kbps BER=1%]*1	-40 to +85	P-WQFN32 -0505-0.50-A63	✓
ML7414	ARIB STD-T67 ARIB STD-T108 Sigfox® (Rev 2.E) RCR STD-30 EN300-220 EN13757-4:2013 IEEE802.15.4g			2-(G) FSK (G) MSK 4-(G) FSK (G) MSK BPSK (TX only)	IEEE 802.15.4g compliant		—	—	to 100kbps		-106dBm [100kbps BER=1%]*1		P-WQFN32 -0505-0.50-A63	✓
New ML7446N	ARIB STD-T67 ARIB STD-T108 Sigfox® (Rev 2.E) RCR STD-30 EN300-220 EN13757-4:2013 IEEE802.15.4g	315 to 960MHz	2.6 to 3.6	2-(G) FSK (G) MSK 4-(G) FSK BPSK (TX only)	—		Cortex®-M3 (to 81MHz)	FLASH1024KB, RAM256KB	0.1k to 100kbps		-106dBm [100kbps BER=1%]*1		P-TFGBA81 -6.5x6.5-0.65-9-MC	✓

Sigfox®是SIGFOX S.A.的注册商标。

*1 BER是Bit Error Rate的缩写。

*2 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

搭载MCU的特定小功率无线(Sub-GHz频段无线&2.4GHz频段无线)系统LSI

(LAPIS Technology产品)

数据收发信LSI												
Part No.	Support Standard	Frequency Band	Supply Voltage (V)	Modulation Method	CPU core	Memory resources	Transmission Rate	Transmission Output (dBm)	Reception Sensitivity	Operating Temperature (°C)	Package	Halogen Free Support*2
ML7416N	ARIB STD-T108 IEEE802.15.4g	750 to 960MHz	1.8 to 3.6	2- (G) FSK (G) MSK	Cortex®-M0+ (to 40MHz)	FLASH512KB, RAM64KB	to 50kbps 100kbps 150kbps 200kbps 400kbps	1mW/ 10mW/ 20mW	-106dBm [100kbps BER=0.1%]*1	-40 to +85	P-LFBGA81 -1010-1.00-1-MC	✓
ML7436N	ARIB STD-T66 ARIB STD-T67 ARIB STD-T108 EN300-220 FCC part15 IEEE802.15.4g	400 to 960MHz 2.4GHz	2.6 to 3.6	2- (G) FSK (G) MSK 4- (G) FSK	Cortex®-M3 (to 81MHz)	FLASH1024KB, RAM256KB	1.2k to 300kbps		-107dBm [100kbps BER=1%]*1		P-TQFP48 -0707-0.50-29K6-MC	✓

Cortex®是ARM Limited(或其子公司)在EU或在其他国家的注册商标。

*1 BER是Bit Error Rate的缩写。

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车载通信用LSI

FM数字广播接收用LSI

(LAPIS Technology产品)

FM数字广播接收调谐器								
Part No.	Feature	Supply Voltage (V)	Supply Current (Max) (mA)	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2	
ML7174 [J]	FM VICS® tuner, FM multiplexing demodulate LSI for VICS®, Built-in BPF, frame memory, and VICS® descrambler, Frames A,B,C, SPI slave	3.0 to 3.6	85	-40 to +85	P-WQFN64 -0909-0.50-63	✓	YES	
ML7183 [J]	FM VICS® tuner & Filter LSI, BPF, I²C slave		75			✓	YES	
支持VICS® FM多重解调								
ML7154 [J]	VICS® compliant FM multiplexing demodulate LSI for VICS®, Built-in BPF, frame memory, and VICS® descrambler, Frames A,B,C, SPI slave	3.0 to 3.6	28	-40 to +85	P-WQFN64 -0909-0.50-63	✓	YES	

[J]: 此LSI仅在日本市场销售。

VICS®是美国Vehicle Information and Communication System Center的注册商标。

*1 带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。

*2 关于AEC-Q100, 请咨询销售人员。

音频/视频

音频放大器	P.88	音频电源	P.90
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图像LSI	P.95		

音频放大器

车载功放

1.2W 单声道AB类功放													
Part No.	Supply Voltage (V)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power (W)	Input Impedance Z_{IN} (kΩ)	Built-in Amplifier Resistance		Distortion (%)	Output Noise Voltage (μVrms)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD78306EFJ-M	4.0 to 5.5	2.5	0.1	6.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	45	90	90	0.05 ($P_O=1W$)	15	HTSOP-J8	FSs	YES
☆BD78308EFJ-M	4.0 to 5.5	2.5	0.1	8.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	40	80	80	0.05 ($P_O=1W$)	16	HTSOP-J8	FSs	YES
BD78310EFJ-M	4.0 to 5.5	2.5	0.1	10.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	35	70	110	0.06 ($P_O=1W$)	17	HTSOP-J8	FSs	YES
☆BD78312EFJ-M	4.0 to 5.5	2.5	0.1	12.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	30	60	120	0.06 ($P_O=1W$)	19	HTSOP-J8	FSs	YES
☆BD78314EFJ-M	4.0 to 5.5	2.5	0.1	14.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	25	50	130	0.07 ($P_O=1W$)	22	HTSOP-J8	FSs	YES
☆BD78316EFJ-M	4.0 to 5.5	2.5	0.1	16.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	20	40	140	0.09 ($P_O=1W$)	24	HTSOP-J8	FSs	YES
☆BD78318EFJ-M	4.0 to 5.5	2.5	0.1	18.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	18	36	144	0.10 ($P_O=1W$)	26	HTSOP-J8	FSs	YES
☆BD78320EFJ-M	4.0 to 5.5	2.5	0.1	20.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	15	30	150	0.12 ($P_O=1W$)	31	HTSOP-J8	FSs	YES
☆BD78322EFJ-M	4.0 to 5.5	2.5	0.1	22.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	12	24	156	0.15 ($P_O=1W$)	35	HTSOP-J8	FSs	YES
☆BD78324EFJ-M	4.0 to 5.5	2.5	0.1	24.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	10	20	160	0.17 ($P_O=1W$)	43	HTSOP-J8	FSs	YES
BD78326EFJ-M	4.0 to 5.5	2.5	0.1	26.0 ($P_O=0.5W$)	1.2 (THD+N=1%)	8	16	164	0.20 ($P_O=1W$)	50	HTSOP-J8	FSs	YES

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☆1 “ComfySIL™功能安全类别” 详情请参阅封二。

☆：开发中

扬声器放大器

便携式放大器 1.9W + 1.9W立体声扬声器放大器										
Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	Package
BD7836EFV	4.5 to 5.5	1.0	5	0.1	6/10/15.6/21.6	1.9 ($V_{DD}=5V$, 4Ω, THD+N=1%)		0.1	16	HTSSOP-B20

便携式放大器 1.1W~1.5W单声道扬声器放大器										
Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power ($R_L=8Ω$, THD=10%)		Distortion (%)	Output Noise Voltage (dBV)	Package
						$V_{CC}=3.6V$	$V_{CC}=5.0V$			
BD7830NUV	2.4 to 5.5	0.53	3.2	0	0 to 20	0.77W	1.5W	0.1	-100	VSON008V2030

便携式放大器 模拟输入单声道D类扬声器放大器										
Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	ALC Circuit	Package (mm)
BD5460GUL	2.5 to 5.5	0.69	2.0 ($V_{DD}=3.6V$)	6	2.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N=10%)	0.85 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N=10%)	0.3 ($V_{DD}=3.6V$)	30	—	VCSP50L1 1.6x1.6, H=0.55Max
BD5461GUL	2.5 to 5.5	0.69	2.0 ($V_{DD}=3.6V$)	12	2.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N=10%)	0.85 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N=10%)	0.3 ($V_{DD}=3.6V$)	40	—	VCSP50L1 1.6x1.6, H=0.55Max
BD27400GUL	2.5 to 5.5	0.69	2.9 ($V_{DD}=3.6V$)	External Variable	2.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N=10%)	0.85 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N=10%)	0.3 ($V_{DD}=3.6V$)	40	—	VCSP50L1 1.5x1.5, H=0.55Max
BD5632NUX	2.5 to 5.5	0.52	2.7 ($V_{DD}=3.6V$)	6	2.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N=10%)	0.85 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N=10%)	0.3 ($V_{DD}=3.6V$)	40	—	VSON008X2030
BD5634NUX	2.5 to 5.5	0.52	2.7 ($V_{DD}=3.6V$)	12	2.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N=10%)	0.85 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N=10%)	0.3 ($V_{DD}=3.6V$)	40	—	VSON008X2030
BD5638NUX	2.5 to 5.5	0.52	2.7 ($V_{DD}=3.6V$)	18	2.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N=10%)	0.85 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N=10%)	0.3 ($V_{DD}=3.6V$)	40	—	VSON008X2030
BD5465GUL	2.5 to 5.5	0.69	3.3 ($V_{DD}=3.6V$)	12	0.6 ($V_{DD}=3.4$ to $5.5V$, $R_L=8Ω$, THD+N≤1%)		0.3 ($V_{DD}=3.6V$)	40	✓	VCSP50L1 1.8x1.8, H=0.55Max
BD5466GUL	2.5 to 5.5	0.69	3.0 ($V_{DD}=3.6V$)	18	1.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N≤1%)	0.5 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N≤1%)	0.3 ($V_{DD}=3.6V$)	40	✓	VCSP50L1 1.7x1.7, H=0.55Max
BD5467GUL	2.5 to 5.5	0.69	3.0 ($V_{DD}=3.6V$)	13	1.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N≤1%)	0.5 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N≤1%)	0.3 ($V_{DD}=3.6V$)	40	✓	VCSP50L1 1.7x1.7, H=0.55Max
BD5468GUL	2.5 to 5.5	0.69	3.0 ($V_{DD}=3.6V$)	13	1.5 ($V_{DD}=5V$, $R_L=4Ω$, THD+N≤1%)	0.5 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N≤1%)	0.3 ($V_{DD}=3.6V$)	40	✓	VCSP50L1 1.7x1.7, H=0.55Max
BD5469GUL	2.5 to 5.5	0.69	3.0 ($V_{DD}=3.6V$)	13	0.88 ($V_{DD}=4.2V$, $R_L=8Ω$, THD+N≤1%)	0.64 ($V_{DD}=3.6V$, $R_L=8Ω$, THD+N≤1%)	0.3 ($V_{DD}=3.6V$)	40	✓	VCSP50L1 1.7x1.7, H=0.55Max

便携式放大器 模拟输入立体声D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)	Distortion (%)	Output Noise Voltage (μVrms)	Max LDO Current (mA)	Package
BD28412MUV	4.5 to 13.0	3.20	16 (V _{CC} =11V)	20/26/ 32/36	$\left(\begin{matrix} 18 \\ V_{CC}=12V, R_L=4\Omega \\ THD+N=10\%, PBTl \end{matrix} \right)$ $\left(\begin{matrix} 9 \\ V_{CC}=12V, R_L=8\Omega \\ THD+N=10\% \end{matrix} \right)$	0.03 (V _{CC} =11V)	100	—	VQFN032V5050

中/高输出放大器 搭载DSP的支持数字输入的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Output Power (W)	Distortion (%)	Output Noise Voltage (μVrms)	DSP					Package
							Volume	DC Cut HPF	Hard Clipper	Parametric EQ	DRC	
BM28723AMUV	10 to 24	4.56 (4-Layer Board)	45 (V _{CC} =18V)	$\left(\begin{matrix} 10 \\ V_{CC}=13V \\ R_L=8\Omega \end{matrix} \right)$ $\left(\begin{matrix} 17 \\ V_{CC}=18V \\ R_L=8\Omega \end{matrix} \right)$	0.08	150	✓	✓	✓	✓ (12 Band)	✓ (3 Band)	VQFN032V5050

中/高输出放大器 支持数字输入的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Output Power (W)	Distortion (%)	Output Noise Voltage (μVrms)	Power Limiter Function	Package
BD28623MUV	8.5 to 24.0	3.56 (4-Layer Board) 2.21 (2-Layer Board)	40 (V _{CC} =18V)	— (V _{CC} =16V, R _L =8Ω)	0.08	150	✓ (GAIN)	VQFN024V4040

中/高功率放大器 支持模拟输入/BTL输出的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)	Distortion (%)	Output Noise Voltage (μVrms)	Power Limiter Function	Package
BD5424EFS	10.0 to 18.0	4.5 (4-Layer Board) 2.0 (2-Layer Board)	30 (V _{CC} =12V)	28	$\left(\begin{matrix} 10 \\ V_{CC}=12V, R_L=8\Omega \end{matrix} \right)$ $\left(\begin{matrix} 20 \\ V_{CC}=17V, R_L=8\Omega \end{matrix} \right)$	0.1	80	✓ (Power Limiter)	HTSSOP-A44
BD5423AEFS	10.0 to 16.5	4.5 (4-Layer Board) 2.0 (2-Layer Board)	25 (V _{CC} =12V)	28	$\left(\begin{matrix} 10 \\ V_{CC}=12V, R_L=8\Omega \end{matrix} \right)$ $\left(\begin{matrix} 17 \\ V_{CC}=12V, R_L=4\Omega \end{matrix} \right)$	0.1	80	✓ (Power Limiter)	HTSSOP-A44
BD5426EFS	10.0 to 16.5	4.5 (4-Layer Board) 2.0 (2-Layer Board)	25 (V _{CC} =12V)	28	$\left(\begin{matrix} 9 \\ V_{CC}=12V, R_L=8\Omega \end{matrix} \right)$ $\left(\begin{matrix} 10 \\ V_{CC}=13V, R_L=8\Omega \end{matrix} \right)$	0.1	80	✓ (Power Limiter)	HTSSOP-A44
BD5413EFV	6.0 to 10.5	2.8 (4-Layer Board) 1.1 (2-Layer Board)	12 (V _{CC} =9V)	30	$\left(\begin{matrix} 4 \\ V_{CC}=9V, R_L=8\Omega \end{matrix} \right)$ $\left(\begin{matrix} 5 \\ V_{CC}=9V, R_L=6\Omega \end{matrix} \right)$	0.2	90	—	HTSSOP-B24

耳机放大器

无需耦合电容器的耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Gain (V/V)	Maximum Output Power (mW)	Distortion (%)	Output Noise Voltage (μVrms)	Ripple Rejection (dB)	Note	Package (mm)
BD88200GUL	2.4 to 5.5	2	Variable Gain with external resistor	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Virtual ground based	VCSP50L2 2.1×2.1
BD88210GUL	2.4 to 5.5	2	-1.0	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Virtual ground based	VCSP50L2 2.1×2.1
BD88215GUL	2.4 to 5.5	2	-1.5	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Virtual ground based	VCSP50L2 2.1×2.1
BD88220GUL	2.4 to 5.5	2	-2.0	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Virtual ground based	VCSP50L2 2.1×2.1
BD88400GUL	2.4 to 5.5	2	Variable Gain with external resistor	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Ground based	VCSP50L2 2.1×2.1
BD88400FJ	2.4 to 5.5	2	Variable Gain with external resistor	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Ground based	SOP-J14
BD88410GUL	2.4 to 5.5	2	-1.0	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Ground based	VCSP50L2 2.1×2.1
BD88415GUL	2.4 to 5.5	2	-1.5	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Ground based	VCSP50L2 2.1×2.1
BD88420GUL	2.4 to 5.5	2	-2.0	80 (V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Ground based	VCSP50L2 2.1×2.1

0.93V低电压工作(1节电池)

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Maximum Output Power (mW)		Distortion (%)		Output Noise Voltage (μVrms)	Package
			Single-ended (16Ω)	BTL (8Ω)	Single-ended (16Ω)	BTL (8Ω)		
BU7150NUV	0.93 to 3.50 (T _a =0°C or more)	1	14 (V _{DD} =1.5V)	85 (V _{DD} =1.5V)	0.1 (P _O =5mW)	0.2 (P _O =25mW)	10	VSON010V3030

标准耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Voltage Gain (dB)	Maximum Output Power (mW) R _L =16Ω	Distortion (%)	Ripple Rejection (dB)	Package
BH3544F	2.8 to 6.5	7.0	6	62	0.02	57	SOP8
BH3547F	4.5 to 6.5	3.7	6	77	0.05	57	SOP8
BH3548F	4.0 to 5.5	6.5	6	62 (120@R _L =8Ω)	0.02	57	SOP8

其他

线路放大器(Output Coupling Capacitor-less Line Amplifier)											
Part No.	Supply Voltage (V)	Circuit Current (mA)	ch	Voltage Gain (dB)	Maximum Output Voltage (Vrms)	Distortion (%)	Output Noise Voltage (μVrms)	Channel Separation (dB)	Ripple Rejection (dB)	Charge Pump	Package
BD8876FV	3.0 to 5.5	3.2	2	6 or 9	3.5	0.003	8	80	65	✓	SSOP-B14
BD8878FV	3.0 to 5.5	3.2	2	6.7	3.0	0.003	10	65	65	✓	SSOP-B14

隔离放大器													
Part No.	Supply Voltage (V)	Operating Temperature (°C)	Circuit	Circuit Current (mA)	Voltage Gain (dB)	CMRR (dB)	Common-mode Input Voltage Range (V) V _{CC} =8V	THD (%)	Output Noise Voltage (μVrms)	Channel Separation (dB)	Slew Rate (V/μs)	Input Resistance (kΩ)	Package
BA3121F	4.0 to 18.0	-30 to +85	2	9.0	-0.04	57	3.75	0.002	3.5	82	2.0	55	SOP8
BA3123F	4.0 to 18.0	-40 to +85	2	9.0	-0.04	57	3.75	0.002	3.5	82	2.0	55	SOP8

音频电源

高品质音频电源

*以下产品属于电源管理产品。(请参见P.42)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

高品质音频电源											
Part No.	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Reference Voltage Accuracy (%)	Dropout Voltage (mV)	Noise Level (μVrms)	PSRR (dB)	Over Current Protection	Thermal Protection	Package	
MUS-IC BD37201NUX	0.5	2.7 to 5.5	Variable 1.0 to 4.5	±1	200	3.3	90 (f=1kHz) 55 (f=1MHz)	✓	✓	VSON008X2030	

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 作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。

音频处理器

模拟音频处理器

内置μ-step音量 6ch/8ch声音处理器												
Part No.	Supply Voltage (V)	Circuit Current (mA)	Output Noise Voltage (μVrms)	Distortion (%)	Selector	Main Volume (dB)		Zone Volume (dB)		Tone Control	Serial Control	Package
							ch		ch			
MUS-IC BD34704KS2	±6.5 to ±7.5	±32	1.2	0.0004	18	+32 to -95 0.5/Step	8	+7.5 to -91.5 0.5/Step	2	—	2Wire	SQFP-T80C
MUS-IC BD34705KS2	±6.5 to ±7.5	±32	1.2	0.0004	12	+32 to -95 0.5/Step	8	+6 to -16 1/Step, -16 to -56 2/Step	2	—	2Wire	SQFP-T64
BD34701KS2	±6.5 to ±7.5	±22	1.5	0.0004	8	+32 to -95 0.5/Step	8	—	—	—	2Wire	SQFP-T52
BD3471KS2	±6.5 to ±7.5	±30	1.5	0.0004	12	+24 to -95 0.5/Step	8	—	—	—	2Wire	SQFP-T80C
BD3473KS2	±6.5 to ±7.5	±30	1.5	0.0004	12	+24 to -95 0.5/Step	8	—	—	Bass, Treble	2Wire	SQFP-T80C
BD3474KS2	±6.5 to ±7.5	±30	1.5	0.0004	12	+32 to -95 0.5/Step	6	—	—	Bass, Treble	2Wire	SQFP-T80C

2ch/4ch/6ch声音处理器												
BD34700FV	±6.5 to ±7.5	±22	1.5	0.0004	—	+32 to -95 0.5/Step	4	—	—	—	2Wire	SSOP-B40
BD3812F	±5.0 to ±7.3	±2	1.2	0.0050	—	0,6 to 18 2/Step, 0 to -103 1/Step	2	—	—	—	2Wire	SOP14
BD3814FV	±5.0 to ±7.3	±7	1.0	0.001	—	0 to -95 1/Step	6	—	—	Bass, Treble	2Wire	SSOP-B40

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 作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。

6ch/9ch立体声输入选择器IC 最大输入电压4.2V																
Part No.	Supply Voltage (V)	Current Consumption (mA)			Output Noise Voltage (μVrms)		Distortion (%)		Selector			Serial Control		Package		
BD3843FS	±4.0 to ±7.3	±3			1.0		0.004		6			2Wire		SSOP-A24		
BD3841FS	±5.0 to ±7.3	±3			1.0		0.004		9			2Wire		SSOP-A32		
内置双频段均衡器的声音处理器																
Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Volume (dB)	Fader		Parametric EQ	Loudness	LPF for Sub Woofer	Option	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package
			Single	Diff.			(dB)	Output								
BD37503FV	7.0 to 9.5	20	3	1	0 to +20	0 to -36, -∞	0 to -63, -∞	4	—	✓*	—	Anti-aliasing Filter*	I ² C BUS	5.8	0.001	SSOP-B20
BD37511FS	7.0 to 9.5	15	3	—	0 to +20	0 to -40	0 to -62, -∞	4	—	—	—	—	I ² C BUS	6.0	0.005	SSOP-A20
BD37512FS	7.0 to 9.5	15	3	1	0 to +20	0 to -40	0 to -62, -∞	4	—	—	—	—	I ² C BUS	6.0	0.005	SSOP-A20
BD37513FS	7.0 to 9.5	38	3	1	0 to +20	+15 to -79, -∞	0 to -79, -∞	4	—	✓	—	—	I ² C BUS	3.8	0.001	SSOP-A20
BD37514FS	7.0 to 9.5	38	3	1	0 to +20	+15 to -79, -∞	0 to -79, -∞	5	✓	✓	—	—	I ² C BUS	3.8	0.001	SSOP-A20
BD37515FS	7.0 to 9.5	38	3	1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	5	✓	✓	✓	—	I ² C BUS	3.8	0.001	SSOP-A20
BD37521FS	7.0 to 9.5	38	3	1	0 to +20	+15 to -79, -∞	0 to -79, -∞	4	—	EXT	—	—	I ² C BUS	3.8	0.001	SSOP-A24
BD37522FS	7.0 to 9.5	38	4	1	0 to +20	+15 to -79, -∞	0 to -79, -∞	4	✓	✓	—	—	I ² C BUS	3.8	0.001	SSOP-A24
BD37523FS	7.0 to 9.5	38	4	1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	5	✓	✓	✓	—	I ² C BUS	3.8	0.001	SSOP-A24
BD3870FS	4.5 to 9.5	8	3	—	0/6/12/18	0 to -87, -∞	—	2	EXT	—	—	Surround	2Wire	4.5	0.01	SSOP-A24
BD3871FS	4.5 to 9.5	8	3	—	24/26/28	0 to -87, -∞	—	2	EXT	—	—	Surround	2Wire	40 (Gv=24dB)	0.01	SSOP-A24
BD3872FS	4.5 to 9.5	8	5	—	0/5/10/19/23/26/28	0 to -87, -∞	—	2	EXT	—	—	Surround	2Wire	4.5	0.01	SSOP-A32
BD3873FS	4.5 to 9.5	8	3	—	18/21/24/27	0 to -87, -∞	—	2	EXT	—	—	Surround	2Wire	40 (Gv=24dB)	0.01	SSOP-A24
BD3490FV	4.75 to 9.50	7	4	—	0/2/4/6/8/12/16/20	0 to -87 (2ch Independent control), -∞	—	2	EXT	—	—	Bass Boost, Surround	I ² C BUS	5.0	0.002	SSOP-B28
BD3491FS	4.75 to 9.50	7	6	—	0/2/4/6/8/12/16/20	0 to -87 (2ch Independent control), -∞	—	2	EXT	—	—	Bass Boost, Surround	I ² C BUS	5.0	0.002	SSOP-A32

内置双频段均衡器的声音处理器: 搭载低音、高音 *可排他性使用响度 EXT: 由外置元件设定
 BD37511FS、BD37512FS的引脚兼容。BD37513FS、BD37514FS、BD37515FS的引脚兼容。
 BD37522FS和BD37523FS的引脚兼容。

模拟音频处理器

内置3频段均衡器的声音处理器																				
Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Volume (dB)	Fader		Parametric EQ	Loudness	LPF/HPF for Sub Woofer	Mixing		Level Meter	Option	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package	ComfySIL™ Functional Safety*1
			Single	Diff.			(dB)	Outputs				ATT								
BD37524FS	7.0 to 9.5	38	4	1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	—	—	✓	—	I²C BUS	3.8	0.001	SSOP-A24	—
BD37531FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	—	—	—	—	—	I²C BUS	3.8	0.001	SSOP-B28	—
BD37532FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	—	—	—	—	I²C BUS	3.8	0.001	SSOP-B28	—
BD37533FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	✓	✓	—	—	I²C BUS	3.8	0.001	SSOP-B28	—
BD37534FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	✓	✓	✓	—	I²C BUS	3.8	0.001	SSOP-B28	—
BD37541FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	0 to -79, -∞	6	✓	EXT	—	✓	—	—	—	I²C BUS	3.8	0.001	SSOP-B28	—
BD37542FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	EXT	LPF	✓	✓	—	—	I²C BUS	3.8	0.001	SSOP-A32	—
BD37543FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	EXT	LPF+ HPF	✓	✓	✓	—	I²C BUS	3.8	0.001	SSOP-A32	—
BD37544FS	7.0 to 9.5	38	1/3/4	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	—	LPF+ HPF	✓	✓	—	Super Bass	I²C BUS	3.8	0.001	SSOP-A32	—
BD37545FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	—	LPF+ HPF	✓	✓	✓	External I/O	I²C BUS	3.8	0.001	SSOP-A32	—
BD37033FV-M	7.0 to 9.5	31	3/5	2/1	0 to +16	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	✓	✓	✓	—	I²C BUS	5.5	0.002	SSOP-B28	FSs
BD37034FV-M	7.0 to 9.5 VccL to 13	36	3/5	2/1	0 to +16	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF+ HPF	✓	✓	✓	High Voltage Output	I²C BUS	6.0	0.002	SSOP-B28	FSs
BD3883FS	6.5 to 9.5	8	5	—	0/6/12/16/20/23/26/29	0 to -87, -∞	0/-10	2	EXT	—	—	—	—	—	Surround	2Wire	4.0	0.01	SSOP-A32	—
BD3403FV	6.5 to 9.5	16	5	—	0 to +26 (2/Step)	0 to -30 (2/Step)	0 to -59, -∞	2	EXT	—	—	—	—	—	Surround	2Wire	8.0	0.02	SSOP-B40	—
内置高级开关的通用电子音量控制器																				
Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Fader Volume (dB)	Outputs	Mixing		Post Filter	High-Voltage Output (dB)	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package	ComfySIL™ Functional Safety*1				
			Single	Diff.				ch	ATT (dB)											
BD3464FV	7.0 to 9.5	25	—	—	—	+23 to -79, -∞ (1/Step)	4	—	—	—	—	I²C BUS	1.9	0.0004	SSOP-B20	—				
BD3465FV	7.0 to 9.5	25	—	—	—	+23 to -79, -∞ (1/Step)	4	3	+0 to -64, -∞ (8/Step)	—	—	I²C BUS	1.9	0.0004	SSOP-B20	—				
BD3460FS	7.0 to 9.5	25	—	—	—	+23 to -79, -∞ (1/Step)	6	—	—	—	—	I²C BUS	1.9	0.0004	SSOP-A24	—				
BD3461FS	7.0 to 9.5	25	—	—	—	+23 to -79, -∞ (1/Step)	6	3	+0 to -64, -∞ (8/Step)	—	—	I²C BUS	1.9	0.0004	SSOP-A24	—				
MUS-IC BD34602FS-M	7.0 to 9.5	35	—	—	—	+23 to -79, -∞ (1/Step)	6	3	+0 to -79, -∞ (1/Step)	—	—	I²C BUS	1.3	0.0004	SSOP-A24	FSs				
BD37067FV-M	7.0 to 9.5	37	2/3/4/5	4/3/2/1	+23 to -15 (1/Step)	+23 to -79, -∞ (1/Step)	6	1	—	✓	—	I²C BUS	8	0.003	SSOP-B40	FSs				
BD37068FV-M	7.0 to 9.5 VccL to 17.8	30/7	1/2/3/4/5	5/4/3/2/1	+23 to -15 (1/Step)	+23 to -79, -∞ (1/Step)	6	1	—	✓	0/8.3	I²C BUS	23 (High-Voltage Mode)	0.003	SSOP-B40	FSs				
BD37069FV-M	7.0 to 9.5 VccL to 17.8	30/7	2/3/4/5	4/3/2/1	+23 to -15 (1/Step)	+23 to -79, -∞ (1/Step)	6	1	—	✓	2/4.6/8.3	I²C BUS	23 (High-Voltage Mode)	0.003	SSOP-B40	FSs				
频谱分析显示器用带通滤波器IC																				
Part No.	Supply Voltage (V)	Current Consumption (mA)	Band	Input Mix Amplifier	REC Level Display	Standard Output (V)	Maximum Output (V)	BPF Center Frequency (Hz)			Package									
BA3835F	4.5 to 6.5	8.5	5	✓	—	1.35	4.8	105, 340, 1k, 3.4k, 10.5k			SOP18									
BA3834F	4.5 to 6.5	10.0	7	✓	—	1.35	4.8	68, 170, 420, 1k, 2.4k, 5.9k, 14.4k			SOP18									

内置3频段均衡器的语音处理器 :EXT : 由外部元件设定
 BD37531FV、BD37532FV、BD37533FV和BD37534FV引脚兼容。
 BD37541FS、BD37542FS、BD37543FS引脚兼容。BD37033FV-M、BD37034FV-M引脚兼容。
 内置高级开关的通用电子音量控制器 :BD3464FS和BD3465FS引脚兼容。BD3460FS、BD3461FS、BD34602FS-M引脚兼容。
 BD37067FV-M和BD37068FV-M引脚兼容。

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 *1 “ComfySIL™功能安全类别”的详情请参阅封二。

媒体解码器

AAC/WMA/MP3/WAV格式 + SD存储卡 + CD-ROM																
Part No.	Supply Voltage (V)	USB	SD	iPod	Serial I/F	Display Information	MP3	WMA	AAC	CD-ROM Mode	CD-ROM File System	MP3 Recording Format	File Search	Audio Output		Package
														Analog	Digital	
BU94605AKV	3.0 to 3.6	USB2.0 Full Speed	MMC SD, miniSD, microSD, SDHC	—	I ² C BUS	Folder number, File number, Play time, Folder name, File name, TAG (Artist, Album, Title)	MPEG1, 2, 2.5 LAYER1, 2, 3	WMA9 Standard	MPEG4 AAC-LC	Mode1, Mode2, form1/2, Romeo, Joliet	ISO 9660 Level1, 2	—	Search during the playback	Line	I ² S SPDIF	VQFP80
AAC/WMA/MP3/WAV格式 + SD存储卡 + CD-ROM + MP3录音																
BU94702AKV	3.0 to 3.6	USB2.0 Full Speed	MMC SD, miniSD, microSD, SDHC	—	I ² C BUS	Folder number, File number, Play time, Folder name, File name, TAG (Artist, Album, Title)	MPEG1, 2, 2.5 LAYER1, 2, 3	WMA9 Standard	MPEG4 AAC-LC	Mode1, Mode2, form1/2, Romeo, Joliet	ISO 9660 Level1, 2	MPEG1 Layer3 Sample Rate: 32, 44.1, 48kHz Bit Rate: 32, 64, 128, 192, 256, 320kHz	Search during the playback	Line	I ² S SPDIF	VQFP80

音频转换器

音频编解码器

音频编解码器											
Part No.	Supply Voltage (V)	ADC	DAC	Microphone Input	Speaker Output		Headphone Output	Filter		ALC	Package
		ch/bit	ch/bit		Type	Monaural/ Stereo		EQ	Notch		
BU26154MUV	HV _{DD} 2.7 to 5.5 LV _{DD} 2.7 to 3.6	1ch/24bit	2ch/24bit	1	AB/D	Monaural	Stereo	✓	✓	✓	VQFN040V6060
BU26156RFS	HV _{DD} 2.7 to 5.5 LV _{DD} 2.7 to 3.6	2ch/24bit	2ch/24bit	2	AB/D	Stereo	Stereo	✓	✓	✓	HTSSOP-A44R

音频DAC

PCM 768kHz/32bit, DSD 22.4MHz 立体声 音频D/A转换器												
Part No.	Supply Voltage			Output Channels	Peak Output Current (mApp)	Resolution (Bit)	SNR (dB)	THD+N (dB)	Dynamic Range (dB)	Sampling Frequency (kHz)	DSD Clock (MHz)	Package
	AVCC (V)	DVDD (V)	DVDDIO (V)									
MUS-IC BD34301EKV	4.5 to 5.5	1.4 to 1.6	3.0 to 3.6	2	9.8	32	130	-115	130	32 to 768	2.8, 5.6, 11.2, 22.4	HTQFP64BV
New BD34352EKV	4.5 to 5.5	1.4 to 1.6	3.0 to 3.6	2	6.25	32	126	-112	126	32 to 768	2.8, 5.6, 11.2, 22.4	HTQFP64BV

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作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。

视频放大器

复合视频放大器

超小型 WL-CSP 无输出电容器 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capac-less	Max Output Level (V _{p-p})	Video Out→In Change Mode	Package (mm)
BH76906GU	2.5 to 3.45	15	6	-0.2 (4.5MHz)	-26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	—	VCSP85H 1.6×1.6, H=1.0 Max
BH76912GU	2.5 to 3.45	15	12	-0.2 (4.5MHz)	-26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	—	VCSP85H 1.6×1.6, H=1.0 Max
BH76916GU	2.5 to 3.45	15	16.5	-0.2 (4.5MHz)	-26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	—	VCSP85H 1.6×1.6, H=1.0 Max

无输出电容器 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capac-less	Max Output Level (V _{p-p})	Package
BH76806FVM	2.5 to 3.45	16	6	-0.45 (4.5MHz)	-51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76809FVM	2.5 to 3.45	16	9	-0.45 (4.5MHz)	-51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76812FVM	2.5 to 3.45	15	12	-0.45 (4.5MHz)	-51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76816FVM	2.5 to 3.45	15	16.5	-0.45 (4.5MHz)	-51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8

小型/低消耗电流 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capac-less	Max Output Level (V _{p-p})	Video Out→In Change Mode	Package
BH76106HFV	2.6 to 5.5	7	6	0.1 (4.5MHz)	-45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	—	HVSOF6
BH76109HFV	2.6 to 5.5	7	9	0.1 (4.5MHz)	-45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	—	HVSOF6
BH76112HFV	2.6 to 5.5	7	12	0.1 (4.5MHz)	-45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	—	HVSOF6
BH76206HFV	2.6 to 5.5	8	6	-0.3 (6MHz)	-40 (27MHz)	Clamp	8th order 6MHz	0	✓	2.6	—	HVSOF6

内置视频开关 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	Switchers	Input type	Video Driver	Mute	Output Capac-less	Max Output Level (V _{p-p})		Package
										V _{CC} =3V	V _{CC} =5V	
BH76330FVM	2.8 to 5.5	10	6	0 (10MHz)	3 input-1 output	Clamp	✓	✓ (Standby)	✓	2.7	4.6	MSOP8
BH76331FVM	2.8 to 5.5	10	6	0 (10MHz)	3 input-1 output	Bias	✓	✓ (Standby)	—	2.8	4.6	MSOP8
BH76360FV	2.8 to 5.5	12	6	0 (10MHz)	6 input-1 output	Clamp	✓	✓ (Standby)	✓	2.7	4.6	SSOP-B16
BH76361FV	2.8 to 5.5	12	6	0 (10MHz)	6 input-1 output	Bias	✓	✓ (Standby)	—	2.8	4.6	SSOP-B16

视频开关

宽带 1ch视频开关

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	Switchers	Input type	Video Driver	Mute	Crosstalk (dB)	Max Output Level (V _{p-p})		Package
										V _{CC} =3V	V _{CC} =5V	
BH76332FVM	2.8 to 5.5	9	0	0 (30MHz)	3 input-1 output	Clamp	—	✓ (Standby)	-65 (4.43MHz)	1.8	3.8	MSOP8
BH76333FVM	2.8 to 5.5	8	0	0 (30MHz)	3 input-1 output	Bias	—	✓ (Standby)	-65 (4.43MHz)	1.9	3.4	MSOP8
BH76362FV	2.8 to 5.5	11	0	0 (30MHz)	6 input-1 output	Clamp	—	✓ (Standby)	-65 (4.43MHz)	1.8	3.8	SSOP-B16
BH76363FV	2.8 to 5.5	11	0	0 (30MHz)	6 input-1 output	Bias	—	✓ (Standby)	-65 (4.43MHz)	1.9	3.4	SSOP-B16

视频、音频开关

Part No.	Supply Voltage (V)	Video Circuit Current (mA)	Audio Circuit Current (mA)	Video Freq. Chara.1 (dB)	Video Freq. Chara.2 (dB)	Video Amplifier Gain (dB)	Audio Freq. Chara.1 (dB)	Audio Freq. Chara.2 (dB)	Audio Amplifier Gain (dB)	Residual Noise (μVrms)	Package
BH7649KS2	7.5 to 9.5	34	23	0 (6.75MHz)	-30 (27MHz)	-3/-6/0/+3/+6	-0.5 (24kHz)	-26 (96kHz)	-6/0	20	SQFP-T52

其他

隔离放大器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	ch	Input type	Video Driver	Input Impedance (kΩ)	CMRR (dB)	Max Output Level (V _{p-p})	Package
BH7673G	4.5 to 5.5	4.8	0	0 (10MHz)	1	Bias	—	150	60	3.8	SSOP5

图像校正

面板用图像校正IC

Part No.	Supply Voltage (V)			Image Data Size	Control I/F	Input/Output Digital I/F	Image Adjustment	PWM Output	LVDS Transmitter	Package	Automotive Grade AEC-Q100
	V _{DD} Core	V _{DD} I/O	V _{DD} LVDS								
BU1523KV	1.65 to 1.95	3.0 to 3.6	3.0 to 3.6	Supports up to WVGA+ (864x480)	I ² C BUS	24bit RGB Interface 8bit YUV=4 : 2 : 2 ITU-R BT.656	✓	—	✓	VQFP100	Preparing

内置图像校正的视频编码器

Part No.	Supply Voltage (V)			Image Data Size	Control I/F	Input/Output Digital I/F	Fog Reduction	Video Encoder	Package	Automotive Grade AEC-Q100
	V _{DD} Core	V _{DD} I/O	AV _{DD}							
BU6521KV	1.4 to 1.6	2.7 to 3.6	2.7 to 3.6	ITU-R BT.656	I ² C BUS Serial EEPROM Interface	8bit YUV=4 : 2 : 2 ITU-R BT.656	✓	✓	VQFP48C	YES

图像LSI

视频解码器

(LAPIS Technology产品)

CVBS/S-video											
Part No.	Supply Voltage (V)	Input (Analog)		Output (Digital)	Pixel Frequency	Crystal Oscillator supported	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
		Terminal	Type								
ML86101A	3.3/1.5	CVBS×4 or CVBS×2+S-video×1 or S-video×2	NTSC PAL SECAM	ITU-R BT.656 YUV 8bit	12.2727MHz, 13.5MHz, 14.3181MHz, 14.75MHz	✓	Simple, small	−40 to +85	P-TQFP48 -0707-0.50-ZK6	✓	YES
ML86112	3.3/1.2	CVBS×4 or differential×2	NTSC PAL	MIPI-CSI2 (YUV422-8bit) ITU-R BT.656	12.2727MHz, 13.5MHz, 14.3181MHz, 14.75MHz 24.5454MHz, 27.000MHz 28.636MHz, 29.500MHz	✓	Simple, small MIPI output I/P conversion	−40 to +105	P-WQFN32 -0505-0.50-W66	✓	YES
ML86V7668A	3.3/2.5	CVBS×4 or CVBS×1+S-video×3	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16bit RGB 18bit	12.2727MHz, 13.5MHz	—	RGB output	−40 to +85	P-TQFP100 -1414-0.50-ZK6	✓	YES
CVBS/S-video/Component/RGB											
ML86V7675	3.3/1.5	CVBS×4 +(Comp or S-video)×1 +Comp×1	NTSC PAL SECAM	ITU-R BT.656 YUV 8bit	7.9930MHz to 33.333MHz	✓	WVGA, EGA analog RGB supported	−40 to +85	P-TQFP64 -1010-0.50-ZK6	✓	YES

*1 带无卤素标记 ✓，表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100，请咨询销售人员。

视频编码器

(LAPIS Technology产品)

CVBS											
Part No.	Supply Voltage (V)	Input (Digital)	Output (Analog)		Pixel Frequency	Crystal Oscillator supported	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
			Terminal	Type							
ML86V76580	3.3/1.8	ITU-R BT.656 YUV 8bit	CVBS	NTSC PAL	12.2727MHz, 13.5MHz, 14.3181MHz, 14.75MHz	—	75Ω drive	−40 to +85	P-TQFP48 -0707-0.50-ZK6	✓	YES
ML86640	3.3	TU-R BT.656 YUV 8/16/24bit RGB 24bit	CVBS	NTSC PAL	13.5MHz, 27MHz, 54MHz	—	75Ω drive P/I conversion	−40 to +105	S-VFBGA25 -2.76×2.50-0.50-W	✓	—
									P-TQFP48 -0707-0.50-ZK6	✓	YES
CVBS/S-video/Component/RGB											
ML86V7655	3.3/2.5	ITU-R BT.656 YUV 8/16/24bit RGB 24bit	CVBS S-video Component	NTSC PAL	12.2727MHz, 13.5MHz, 14.3181MHz, 14.75MHz, 18MHz	—	I/P, P/I conversion	−40 to +85	P-TQFP100 -1414-0.50-ZK6	✓	YES

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视频接口

(LAPIS Technology产品)

LVTTTL/LVDS/MIPI 视频接口								
Part No.	Supply Voltage (V)	Input	Output	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
ML86795	3.3 (1.8)/1.5	ITU-R BT.656 YUV 8bit Single/Dual LVDS (RGB 18/24bit) MIPI-CSI2 (RGB565/888, YUV422-8bit)	ITU-R BT.656 YUV 8/16bit Single/Dual LVDS (RGB 18/24bit) MIPI-CSI2 (RGB565/888, YUV422-8bit) Two Virtual Channel Supported	LVTTTL/LVDS/MIPI-CSI2 I/F, LVTTTL/LVDS/MIPI to LVTTTL/LVDS/MIPI translate, MIPI Virtual Channel	-40 to +105	P-WQFN64 -0909-0.50-63	✓	YES
☆ML86781	3.3/1.5	RGB888 MIPI CSI-2 (RGB565/888, YUV422-8bit) MIPI DSI (RGB565/888, YUV422-8bit)	RGB888 Single/Dual LVDS (RGB666/888) MIPI CSI-2 (RGB565/888, YUV422-8bit)	LVTTTL/MIPI DSI/CSI-2 to LVTTTL/LVDS/MIPI CSI-2 ·Separate one image into two	-40 to +85	P-TQFP128 -1414-0.40-Z6K6- MC	✓	YES
☆ML86796	3.3/1.5	MIPI CSI-2 (RGB565/666/888, YUV422-8/10bit, RAW8/10/12/14/16/20/24)×4	MIPI CSI-2 (RGB565/666/888, YUV422-8/10bit, RAW8/10/12/14/16/20/24)×2	MIPI CSI-2 to MIPI CSI2 ·Supports 4Virtual Channel inputs	-40 to +85 (T.B.D)	P-TQFP100 -1414-0.50-ZK6 (T.B.D)	✓	YES

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面向中小型TFT液晶显示器的显示屏控制器系列

(LAPIS Technology产品)

内置视频解码器、缩放器																
Part No.	Supply Voltage (V)	Input (Analog)		Input (Digital)	Output	Resolution	OSD	MCU	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2			
		Terminal	Type													
ML86V8201	3.3/1.5	CVBS×2 or S-video×1	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit	ITU-R BT.656 YUV 8bit RGB 18/24bit	QVGA to WVGA	Line	—	Rear camera function Image quality adjustment	-40 to +85	P-TQFP100 -1414-0.50-ZK6	✓	YES			
ML86203		CVBS×1	NTSC PAL	ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit	ITU-R BT.656 YUV 8bit Single LVDS (RGB 18/24bit)	VGA to WXGA	—	—	Rear camera function WXGA panel support Image quality adjustment		P-TQFP80 -1010-0.40-ZK6	✓	YES			
ML86207		CVBS×2		ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit + Single LVDS (RGB 18/24bit)	ITU-R BT.656 YUV 8bit RGB 18/24bit Single LVDS (RGB 18/24bit)		Text Line	—	LVTTTL/LVDS I/F Digital video input x2 WXGA panel support Rear camera function Image quality adjustment OSD function		P-TQFP100 -1414-0.50-ZK6	✓	YES			
ML86287							Text Line BMP	—	LVTTTL/LVDS I/F Digital video input x2 WXGA panel support Rear camera function Picture in Picture Image quality adjustment OSD, ROM-OSD function		P-TQFP128 -1414-0.40-ZK6-MC	✓	YES			
ML86209		CVBS single×2 or differential×1		ITU-R BT.656 YUV 8/16bit ITU-R BT.1120 like Single/Dual LVDS (RGB 18/24bit) MIPI-CSi2 (RGB565/888, YUV422-8bit)	ITU-R BT.656 or MIPI-CSi2 (RGB565/888, YUV422-8bit) + Single/Dual LVDS (RGB 18/24bit)	VGA to Full HD	Text Line BMP	—	LVTTTL/LVDS/MIPI-CSi2 I/F Digital video input x4 Full HD panel support Rear camera function Image quality adjustment OSD, ROM-OSD function		P-TQFP128 -1414-0.40-Z6K6	✓	YES			
ML86289								—	LVTTTL/LVDS/MIPI-CSi2 I/F Digital video input x4 Full HD panel support Rear camera function Picture in Picture Image quality adjustment OSD, ROM-OSD function		P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES			
☆ML86290		CVBS single×3 or differential×1	NTSC PAL	ITU-R BT.656 YUV 8/16bit ITU-R BT.1120-like MIPI-DSi (RGB 16/24bit, YUV 8bit, ARGB8565) MIPI-CSi2 (RGB 16/24bit, YUV 8bit)	Dual/Single LVDS (RGB 18/24bit)	QVGA to Full HD	BMP	—	Multi Input support LVTTTL/MIPI-DSi/ MIPI-CSi2/CVBS I/F Rear camera function Picture in Picture ROM-OSD function		P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES			
☆ML86291				ITU-R BT.656 YUV 8/16bit ITU-R BT.1120-like MIPI-DSi (RGB 16/24bit, YUV 8bit) MIPI-CSi2 (RGB 16/24bit, YUV 8bit)				—	Multi Input support LVTTTL/MIPI-DSi/ MIPI-CSi2/CVBS I/F Rear camera function Picture in Picture ROM-OSD function (10windows, 2layers)		P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES			
ML86V8202C	3.3/1.8	CVBS×2 +(Comp or S-video)×1 +Comp×1	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit	ITU-R BT.656 style YUV 8/16/24bit RGB 18/24bit		—	—	Component video support Image quality adjustment	-40 to +85	P-TQFP100 -1414-0.50-ZK6	✓	YES			
ML86240	3.3/1.5	CVBS×4 or CVBS×2 +(Comp or S-video)×1 +Comp×1		ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit 2ch	ITU-R BT.656 YUV 8bit RGB 18/24bit		Text Line	—	Component video support Digital video input x2 Rear camera function Image quality adjustment OSD function		P-TFBGA144 -1111-0.80-1	✓	YES			
ML86241	3.3 (1.8)/1.5	CVBS×4 or CVBS×2 +(Comp or S-video)×1 +Comp×1		ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit + Single LVDS (RGB 18/24bit)	ITU-R BT.656 YUV 8/16bit + RGB 18/24bit YUV 16bit Single LVDS (RGB 18/24bit)		Text Line BMP	—	Component video support LVTTTL/LVDS I/F Digital video input x2 WXGA panel support Rear camera function Image quality adjustment OSD, ROM-OSD function		P-TFBGA144 -1111-0.80-1	✓	YES			
ML86243	3.3/1.5	CVBS single×2 or differential×1		NTSC PAL	*3 ITU-R BT.656 YUV 8/16bit ITU-R BT.1120 like Single/Dual LVDS (YUV 8/16bit RGB 18/24bit)		ITU-R BT.656 YUV 8/16bit RGB 24bit Single/Dual LVDS (RGB 18/24bit) MIPI-CSi2 (RGB565/888 YUV422-16bit)	QVGA to WVGA	Text Line BMP		—	Multi Input/Output support LVTTTL/LVDS/MIPI-CSi2/ CVBS I/F Rear camera function Picture in Picture Image quality adjustment OSD, ROM-OSD function State monitor function	-40 to +85	P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
☆ML86244		CVBS single×2 or differential×1					ITU-R BT.656 YUV 16bit Single/Dual LVDS (RGB 18/24bit)		Text Line BMP		—	Multi Input support LVTTTL/LVDS/CVBS I/F Picture in Picture Image quality adjustment OSD, ROM-OSD function State monitor function		P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES
ML86245		—					—		*3 ITU-R BT.656 YUV 8/16bit RGB 24bit Single/Dual LVDS (RGB 18/24bit)		Text Line BMP	—		Multi Input/Output support LVTTTL/LVDS/MIPI-CSi2/ CVBS I/F Rear camera function Picture in Picture Image quality adjustment OSD, ROM-OSD function State monitor function	P-TQFP128 -1414-0.40-Z6K6-MC	✓
ML86321		CVBS single×2 or differential×1	NTSC PAL		ITU-R BT.656 YUV 8/16bit ITU-R BT.1120 like MIPI-CSi2 (RGB565/888, YUV422-8bit)	YUV 8/16bit Single LVDS (RGB 18/24bit)	QVGA to WVGA		Text Line BMP	—	Electronic rear-view mirror support 3-screen synthesis Image correction function (Angle/Aspherical/Keystone/Lens distortion correction) OSD, ROM-OSD function (15windows, 1layer) State monitor function	P-TQFP128 -1414-0.40-Z6K6-MC		✓	YES	

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*2 关于AEC-Q100, 请咨询销售人员。

*3 关于可选择的信号组合, 请咨询销售人员。

☆: 开发中

(LAPIS Technology产品)

内置画质调节功能													
Part No.	Supply Voltage (V)	Input (Analog)		Input (Digital)	Output	Resolution	OSD	MCU	Feature	Operating Temperature (°C)	Package	Halogen Free Support*1	Automotive Grade*2
		Terminal	Type										
ML86V8101	3.3	—	—	RGB 18bit	RGB 18bit	QVGA to QHD	—		Image quality adjustment function	-40 to +85	P-TQFP64 -1010-0.50-ZK6	✓	YES
ML86V8102				RGB 18/24bit	RGB 18/24bit				RGB 24bits supported image quality adjustment function		P-TQFP80 -1010-0.40-ZK6	✓	YES
ML86173	ITU-R BT.656 YUV 8/10bit RGB 18/24bit Single/Dual LVDS (RGB 18/24bit)			Single/ Dual LVDS (RGB 18/24bit)	WVGA to H 2880 (Max) V 1080 (Max) (Pixel rate 160MHz Max)	Text BMP	—	Image quality adjustment OSD, ROM OSD function (30windows, 2layers) Frequency conversion function State monitor function	P-TQFP100 -1414-0.50-Z6K6		✓	YES	
ML86175	ITU-R BT.656 YUV 8/16bit RGB 18/24bit Single/Dual LVDS (RGB 18/24bit)				H 2048 (Max) V 2048 (Max) (Pixel rate 160MHz Max)			Image quality adjustment 90 degree rotation function OSD, ROM OSD function (15windows, 1layer) Frequency conversion function State monitor function	TQFP128 -1414-0.40-Z6K6-MC		✓	YES	
☆ML86177	3.3/1.5			RGB 24bit Single LVDS (RGB 24bit)	RGB 24bit Single LVDS (RGB 24bit)	QVGA to WXGA	BMP	Warping and rotation for HUD ROM OSD function (10windows, 2layers) Status output Fail detection function	-40 to +105 (T.B.D)	P-TQFP128 -1414-0.40-Z6K6-MC	✓	YES	
内置视频解码器、8051MCU													
ML86V8401	3.3/1.8	CVBS×3 or CVBS×2 +S-video×1	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16/24bit RGB 18/24bit	ITU-R BT.656 RGB 18/24bit	QVGA to WVGA	Text	8051 (8bit)	System control MCU installed	-40 to +85	P-TQFP100 -1414-0.50-ZK6	✓	YES

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*2 关于AEC-Q100，请咨询销售人员。

☆：开发中

语音合成LSI

车载用 语音合成LSI	P.98	长时间播放 语音合成LSI	P.98
短时间播放 语音合成LSI	P.99	支持外挂存储器 语音合成LSI	P.99

车载用 语音合成LSI

(LAPIS Technology产品)

存储器内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	AEC-Q100 standard
ML22Q532	2.7 to 3.6 or 3.3 to 5.5	4.096 or 4.000	Built-in External	-40 to +105	Flash 2M	4096	99sec*1	I ² C/ Clock synchronous serial	1.0/ AB-class	4	Rewrite Flash from MCU*/ Serial Audio Interface/ Failure detection	P-TQFP48 -0707-0.50-Z6K6-MC	YES	✓
ML22Q533					Flash 4M		202sec*1					P-TQFP48 -0707-0.50-Z6K6-MC	YES	✓
ML22Q535					Flash 16M		14min*1					P-TQFP48 -0707-0.50-Z6K6-MC	YES	—
ML22572	2.7 to 5.5	4.096	External		Mask 2M	1024	99sec*1	Clock synchronous serial			Fail safe	P-SSOP30 -56-0.65-Z6K8-MC	YES	—
ML22573					Mask 4M		202sec*1					P-SSOP30 -56-0.65-Z6K8-MC	YES	—
ML22Q573					Flash 4M							P-SSOP30 -56-0.65-Z6K8-MC	YES	—
ML22Q553												Speaker terminal Short circuit detection function	P-SSOP30 -56-0.65-Z6K6	YES
ML22Q274	2.0 to 5.5	4.096	Built-in		Flash 692K*7	30/62	28sec*2	Clock synchronous serial	1.0/ D-class	1	Disconnection and short circuit detection function	P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q284						30		Stand-alone				P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q294						30/62		I ² C				P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q374P						30		Clock synchronous serial				P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q394P								I ² C				P-TSSOP20 -0225-0.65-TK6	YES	✓

存储器外挂型

ML22530	2.7 to 3.6 or 3.3 to 5.5	4.096 or 4.000	Built-in External	-40 to +105	External maximum 128M	4096	109min*1	I ² C/ Clock synchronous serial	1.0/ AB-class	4	Rewrite Flash from MCU*/Serial Audio Interface/Failure detection	P-TQFP48 -0707-0.50-Z6K6	YES	✓
ML22594	4.5 to 5.5	4.096	External		Mask 6M** (Built-in 512/ External 512)	1024*5 (Built-in 512/ External 512)	Built-in 304sec*1 External 109min*3	Clock synchronous serial			Speaker terminal and short circuit detection function	P-SSOP30 -56-0.65-Z6K6	YES	✓

*1 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间 *2 用ADPCM2取样，频率为6.4kHz时的最长播放时间

*3 使用外挂存储器(Max.128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

*4 内置Mask ROM为6Mbit，可连接外挂存储器(Max.128Mbit)

*5 内置Mask的512个短语和外挂存储器里512个短语的合计值

*6 使用时钟同步串行时

*7 选择30个短语和选择62个短语时为688Kbit

长时间播放 语音合成LSI

(LAPIS Technology产品)

Flash存储器内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum*1 Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22Q623	2.7 to 3.6 or 3.3 to 5.5	4.096 or 4.000	Built-in External	−40 to +70	Flash 4M	4,096	202sec*3	Clock synchronous serial	1.0/ AB-class, D-class	4	Rewrite Flash from MCU/ Failure detection	P-TQFP32 -0707-0.80-Z6K6-MC	—	✓
ML22Q624					Flash 8M		406sec*3					P-TQFP32 -0707-0.80-Z6K6-MC	—	✓
ML22Q625					Flash 16M		14min*3					P-TQFP32 -0707-0.80-Z6K6-MC	—	✓
ML22Q626					Flash 32M		27min*3					P-TQFP32 -0707-0.80-Z6K6-MC	—	✓
ML22Q663					Flash 4M		202sec*3	I²C			Failure detection	P-TQFP32 -0707-0.80-Z6K6-MC	—	✓
ML22Q664					Flash 8M		406sec*3					P-TQFP32 -0707-0.80-Z6K6-MC	—	✓
ML22Q665					Flash 16M		14min*3					P-TQFP32 -0707-0.80-Z6K6-MC	—	✓
ML22Q666					Flash 32M		27min*3					P-TQFP32 -0707-0.80-Z6K6-MC	—	✓

P2ROM™内置型

ML22723	2.7 to 3.6 or 4.5 to 5.5	4.096	External	−40 to +85	P2ROM™ 4M	4,096*2	161sec*1	Clock synchronous serial	0.7/ AB-class	1	Speech-speed and pitch conversion	P-SSOP30 -56-0.65-ZK6-MC	—	✓			
ML22724					P2ROM™ 8M		325sec*1					P-SSOP30 -56-0.65-ZK6-MC	—	✓			
ML22725					P2ROM™ 16M		11min*1					P-SSOP30 -56-0.65-ZK6-MC	—	✓			
ML22763					P2ROM™ 4M		161sec*1	I²C				P-SSOP30 -56-0.65-ZK6-MC	—	✓			
ML22764					P2ROM™ 8M		325sec*1					P-SSOP30 -56-0.65-ZK6-MC	—	✓			
ML22765					P2ROM™ 16M		11min*1					P-SSOP30 -56-0.65-ZK6-MC	—	✓			

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*1 用ADPCM2取样，频率为6.4kHz时的最长播放时间 *2 1024个短语 (1Bank) ×4Bank

*3 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

短时间播放 语音合成LSI

(LAPIS Technology产品)

D类功放内置型																		
Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade				
New ML22Q234	2.0 to 5.5	8.192	Built-in	-40 to +85	676K*2	30/62	34sec*1	Clock synchronous serial	1.0/ D-class	1	Disconnection and short circuit detection function	P-TSSOP20 -0225-0.65-TK6	—	✓				
New ML22Q244								Stand-alone				P-TSSOP20 -0225-0.65-TK6	—	✓				
New ML22Q254								I²C				P-TSSOP20 -0225-0.65-TK6	—	✓				
AB类功放内置型																		
ML22562	2.7 to 5.5	4.096	External	-40 to +85	Mask 2M	1024	99sec	Clock synchronous serial	1.0/ AB-class	4	Fail safe	P-SSOP30 -56-0.65-Z6K8-MC	—	✓				
ML22563					Mask 4M		202sec*1					P-SSOP30 -56-0.65-Z6K8-MC	—	✓				
ML22Q563					Flash 4M							P-SSOP30 -56-0.65-Z6K8-MC	—	✓				

*1 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

*2 选择30个短语和选择62个短语时为676Kbit

支持外挂存储器 语音合成LSI

(LAPIS Technology产品)

AB类功放/D类功放内置型														
Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrase	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22620	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	-40 to +85	External maximum 128M	4096	109min*2	Clock synchronous serial	1.0/ AB-class, D-class	4	Rewrite Flash from MCU/Failure detection	P-TQFP32 -0707-0.80-Z6K6	—	✓
ML22660								I²C			Failure detection	P-TQFP32 -0707-0.80-Z6K6	—	✓
AB类功放内置型														
ML22420	2.7 to 5.5	4.096	External	-40 to +85	External maximum 128M	1024	87min*1	Clock synchronous serial	0.7/ AB-class	4	—	P-SSOP30 -56-0.65-ZK6	—	✓
ML22460								I²C				P-SSOP30 -56-0.65-ZK6	—	✓

*1 用ADPCM2取样，频率为6.4kHz时的最长播放时间

*2 使用外挂存储器(Max.128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

微控制器

通用型微控制器(16bit) ML62Q2000系列	P.100	通用型微控制器(16bit) ML62Q1000系列	P.102
低功耗微控制器(16bit)	P.106	USB接口及安全功能用微控制器(32bit)	P.106
低电压工作微控制器(8bit)	P.108	语音播放用微控制器(8bit)	P.110

通用型微控制器(16bit)

16bit ML62Q2000系列(搭载U16 Core)

标准型 ML62Q2500组 16bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
☆ML62Q2502	1.8 to 5.5	Flash	64K	4K	8K	3	—	24	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	(TBD)	-40 to +105
☆ML62Q2503			96K										
☆ML62Q2504			128K										
☆ML62Q2522	1.8 to 5.5	Flash	64K	4K	8K	3	—	32	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	(TBD)	-40 to +105
☆ML62Q2523			96K										
☆ML62Q2524			128K										
☆ML62Q2532	1.8 to 5.5	Flash	64K	4K	8K	3	—	40	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	(TBD)	-40 to +105
☆ML62Q2533			96K										
☆ML62Q2534			128K										

搭载LCD驱动器 段码式 ML62Q2700组 16bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
☆ML62Q2724	1.8 to 5.5	Flash	128K	4K	16K	3	—	51	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	(TBD)	-40 to +105
☆ML62Q2725			160K										
☆ML62Q2726			192K										
☆ML62Q2727			256K										
☆ML62Q2734	1.8 to 5.5	Flash	128K	4K	16K	3	—	65	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	(TBD)	-40 to +105
☆ML62Q2735			160K										
☆ML62Q2736			192K										
☆ML62Q2737			256K										
☆ML62Q2744	1.8 to 5.5	Flash	128K	4K	16K	3	—	85	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	(TBD)	-40 to +105
☆ML62Q2745			160K										
☆ML62Q2746			192K										
☆ML62Q2747			256K										

*1 带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。

*2 工业设备用途的详情请垂询本公司。

☆: 开发中。本目录中的信息, 如遇产品更新等其他原因而发生变更, 恕不另行通知。

ML62Q2000系列品名构成说明

M	L	6	2	Q	2	5	0	2		N	N	N	T	B	X	X	X	X
①	②	③	④	⑤	⑥	⑦	⑧											

品名编号

- ①元件类型
ML: 逻辑产品
- ②CPU内核类型
62: 16bit CPU nX-U16/100
- ③ROM类型
Q: 闪存ROM
- ④型号代码
25xx: ML62Q2500组
0x: 32针
2x: 40针
3x: 48针
x2: ROM 64KB
x3: ROM 96KB
x4: ROM 128KB
- ⑤选项代码
None~x: 对每个产品进行设定
- ⑥ROM代码
NNN: 留空
001~xxx: 定制代码
- ⑦封装代码
GD: WQFN
TB: TQFP
GA: QFP
- ⑧LAPIS Technology公司内部代码

(LAPIS Technology产品)

	16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support ¹	Industrial Grade ²
						IC	SSIO	UART									
	6 (8bitx12)	2 (TMR, PWM, IGBT, Capture)	1	12bitx14 (SA type)	—	Master/Slavex1, Masterx1	2	Full Duplex x3	VLSx1	—	8	Safety function, Multiplier/Divider	—	P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63	—	✓	✓
	6 (8bitx12)	2 (TMR, PWM, IGBT, Capture)	1	12bitx14 (SA type)	—	Master/Slavex1, Masterx1	2	Full Duplex x3	VLSx1	—	8	Safety function, Multiplier/Divider	—	P-WQFN40-0606-0.50-63 P-WQFN40-0606-0.50-63 P-WQFN40-0606-0.50-63	—	✓	✓
	6 (8bitx12)	2 (TMR, PWM, IGBT, Capture)	1	12bitx14 (SA type)	—	Master/Slavex1, Masterx1	2	Full Duplex x3	VLSx1	—	8	Safety function, Multiplier/Divider	—	P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63 P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63 P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	—	✓	✓
	8 (8bitx16)	8 (TMR, PWM, IGBT, Capture)	1	12bitx12 (SA type)	—	Master/Slavex1, Masterx2	7	Full Duplex x6	VLSx1	Max 280dot 35segx 8com	9	Safety function, Multiplier/Divider, Speech function/ADPCM2 decoder	—	P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	—	✓	✓
	8 (8bitx16)	8 (TMR, PWM, IGBT, Capture)	1	12bitx16 (SA type)	—	Master/Slavex1, Masterx2	7	Full Duplex x6	VLSx1	Max 360dot 45segx 8com	9	Safety function, Multiplier/Divider, Speech function/ADPCM2 decoder	—	P-QFP80-1414-0.65-ZK6 P-QFP80-1414-0.65-ZK6 P-QFP80-1414-0.65-ZK6 P-QFP80-1414-0.65-ZK6	—	✓	✓
	8 (8bitx16)	8 (TMR, PWM, IGBT, Capture)	1	12bitx16 (SA type)	—	Master/Slavex1, Masterx2	7	Full Duplex x6	VLSx1	Max 480dot 60segx 8com	9	Safety function, Multiplier/Divider, Speech function/ADPCM2 decoder	—	P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	—	✓	✓



通用型微控制器 (16bit)

16bit ML62Q1000系列(搭载U16 Core)

标准型 ML62Q1300组 16bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	
						Input	Output	Input/Output	High Speed	Low Speed				
ML62Q1323	1.6 to 5.5	Flash	16K	2K	2K	—	—	12	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5μs	4.3μA (Internal RC oscillation)	-40 to +105	
ML62Q1324			24K											
ML62Q1325			32K											
ML62Q1333	1.6 to 5.5	Flash	16K	2K	2K	—	—	16	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5μs	4.3μA (Internal RC oscillation)	-40 to +105	
ML62Q1334			24K											
ML62Q1335			32K											
ML62Q1345	1.6 to 5.5	Flash	32K	2K	4K	—	—	20	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5μs	4.3μA (Internal RC oscillation)	-40 to +105	
ML62Q1346			48K											
ML62Q1347			64K											
ML62Q1365	1.6 to 5.5	Flash	32K	2K	4K	—	—	28	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5μs	4.3μA (Internal RC oscillation)	-40 to +105	
ML62Q1366			48K											
ML62Q1367			64K											

标准型 ML62Q1500组 16bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	
						Input	Output	Input/Output	High Speed	Low Speed				
ML62Q1530	1.6 to 5.5	Flash	32K	4K	8K	2	—	42	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1531			48K											
ML62Q1532			64K											
ML62Q1533			96K											
ML62Q1534			128K											
ML62Q1540	1.6 to 5.5	Flash	32K	4K	8K	2	—	46	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1541			48K											
ML62Q1542			64K											
ML62Q1543			96K											
ML62Q1544			128K											
ML62Q1550	1.6 to 5.5	Flash	32K	4K	8K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1551			48K											
ML62Q1552			64K											
ML62Q1553			96K											
ML62Q1554			128K	16K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)			
ML62Q1555			160K											
ML62Q1556			192K											
ML62Q1557			256K											
ML62Q1563	1.6 to 5.5	Flash	96K	4K	16K	2	—	72	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1564			128K											
ML62Q1565			160K											
ML62Q1566			192K											
ML62Q1567			256K											
ML62Q1573	1.6 to 5.5	Flash	96K	4K	16K	2	—	92	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1574			128K											
ML62Q1575			160K											
ML62Q1576			192K											
ML62Q1577			256K											
ML62Q1543C	1.6 to 5.5	Flash	96K	4K	8K	2	—	46	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1544C			128K											
ML62Q1553C	1.6 to 5.5	Flash	96K	4K	8K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1554C			128K											
ML62Q1563C	1.6 to 5.5	Flash	96K	4K	8K	2	—	74	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1564C			128K											

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

*2 工业设备用途的详情请垂询本公司。

Table 1. Pin Configuration and Connections																	
Pin No.	Pin Name	IO Type	IO Mode	IO Config	IO Level	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support ¹	Industrial Grade ²
						PC	SSIO	UART									
1	4 (8bit×8)	4 (TMR, PWM, IGBT, Capture)	1	10bit×6 (SA type)	—	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2	VLS×1	—	8	Safety function, Multiplier/Divider, Comparator×1, DMA	—	P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63	—	✓	✓	
2													P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63 P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63				
3	4 (8bit×8)	4 (TMR, PWM, IGBT, Capture)	1	10bit×8 (SA type)	—	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2	VLS×1	—	8	Safety function, Multiplier/Divider, Comparator×1, DMA	—	P-TSSOP20-0225-0.65-TK6	—	✓	✓	
4													P-TSSOP20-0225-0.65-TK6 P-TSSOP20-0225-0.65-TK6 P-TSSOP20-0225-0.65-TK6				
5	6 (8bit×12)	4 (TMR, PWM, IGBT, Capture)	1	10bit×8 (SA type)	8bit×1	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2	VLS×1	—	8	Safety function, Multiplier/Divider, Comparator×1, DMA	—	P-WQFN24-0404-0.50-A63	—	✓	✓	
6													P-WQFN24-0404-0.50-A63 P-WQFN24-0404-0.50-A63 P-WQFN24-0404-0.50-A63				
7	6 (8bit×12)	4 (TMR, PWM, IGBT, Capture)	1	10bit×8 (SA type)	8bit×1	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2	VLS×1	—	8	Safety function, Multiplier/Divider, Comparator×1, DMA	—	P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	—	✓	✓	
8													P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6				

	16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support ^{†1}	Industria Grade ^{†2}											
						PC	SSIO	UART																				
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2	VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP48-0707-0.50-ZK6	—	✓	✓												
													P-TQFP48-0707-0.50-ZK6	—	✓	✓												
													P-TQFP48-0707-0.50-ZK6	—	✓	✓												
													P-TQFP48-0707-0.50-ZK6	—	✓	✓												
													P-TQFP48-0707-0.50-ZK6	—	✓	✓												
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2	VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓												
													P-TQFP52-1010-0.65-ZK6	—	✓	✓												
													P-TQFP52-1010-0.65-ZK6	—	✓	✓												
													P-TQFP52-1010-0.65-ZK6	—	✓	✓												
													P-TQFP52-1010-0.65-ZK6	—	✓	✓												
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2	VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP64-1010-0.50-ZK6	—	✓	✓												
													P-QFP64-1414-0.80-ZK6	—	✓	✓												
													P-TQFP64-1010-0.50-ZK6	—	✓	✓												
													P-QFP64-1414-0.80-ZK6	—	✓	✓												
													P-TQFP64-1010-0.50-ZK6	—	✓	✓												
													P-QFP64-1414-0.80-ZK6	—	✓	✓												
													P-TQFP64-1010-0.50-ZK6	—	✓	✓												
													P-QFP64-1414-0.80-ZK6	—	✓	✓												
													P-TQFP64-1010-0.50-ZK6	—	✓	✓												
													P-QFP64-1414-0.80-ZK6	—	✓	✓												
	8 (8bitx16)	8 (TMR, PWM, IGBT, Capture)	1	10bitx16 (SA type)	8bitx2	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx6	VLSx1	—	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓												
													P-QFP80-1414-0.65-ZK6	—	✓	✓												
													P-QFP80-1414-0.65-ZK6	—	✓	✓												
													P-QFP80-1414-0.65-ZK6	—	✓	✓												
													P-QFP80-1414-0.65-ZK6	—	✓	✓												
	8 (8bitx16)	8 (TMR, PWM, IGBT, Capture)	1	10bitx16 (SA type)	8bitx2	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx6	VLSx1	—	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP100-1414-0.50-ZK6	—	✓	✓												
													P-QFP100-1420-0.65-BK6	—	✓	✓												
													P-TQFP100-1414-0.50-ZK6	—	✓	✓												
													P-QFP100-1420-0.65-BK6	—	✓	✓												
													P-TQFP100-1414-0.50-ZK6	—	✓	✓												
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx3	VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓												
													P-TQFP52-1010-0.65-ZK6	—	✓	✓												
													6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx4	VLSx1	—	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP64-1010-0.50-ZK6	—	✓	✓
																									P-QFP64-1414-0.80-ZK6	—	✓	✓
																									P-TQFP64-1010-0.50-ZK6	—	✓	✓
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx4	VLSx1	—	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓												
													P-QFP80-1414-0.65-ZK6	—	✓	✓												

16bit ML62Q1000系列(搭载U16 Core)

搭载LCD驱动器 段码式 ML62Q1700组 16bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)								
						Input	Output	Input/Output	High Speed	Low Speed											
ML62Q1700	1.6 to 5.5	Flash	32K	4K	8K	2	—	37	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105								
ML62Q1701			48K																		
ML62Q1702			64K																		
ML62Q1703			96K																		
ML62Q1704			128K																		
ML62Q1710	1.6 to 5.5	Flash	32K	4K	8K	2	—	41	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105								
ML62Q1711			48K																		
ML62Q1712			64K																		
ML62Q1713			96K																		
ML62Q1714			128K																		
ML62Q1720	1.6 to 5.5	Flash	32K	4K	8K	2	—	53	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105								
ML62Q1721			48K																		
ML62Q1722			64K																		
ML62Q1723			96K																		
ML62Q1724			128K																		
ML62Q1725			160K	16K	32K							5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)									
ML62Q1726			192K																		
ML62Q1727			256K																		
ML62Q1728			384K									6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)									
ML62Q1729			512K																		
ML62Q1733	1.6 to 5.5	Flash	96K	4K	16K	2	—	67	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105								
ML62Q1734			128K																		
ML62Q1735			160K																		
ML62Q1736			192K																		
ML62Q1737			256K																		
ML62Q1738			384K	8K	32K							6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)									
ML62Q1739			512K																		
ML62Q1743	1.6 to 5.5	Flash	96K	4K	16K	2	—	87	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105								
ML62Q1744			128K																		
ML62Q1745			160K																		
ML62Q1746			192K																		
ML62Q1747			256K																		
ML62Q1748			384K	8K	32K							6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)									
ML62Q1749			512K																		
ML62Q1713C	1.6 to 5.5	Flash	96K	4K	8K	2	—	41	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105								
ML62Q1714C			128K																		
ML62Q1723C	1.6 to 5.5	Flash	96K	4K	8K	2	—	53	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105								
ML62Q1724C			128K																		
ML62Q1733C	1.6 to 5.5	Flash	96K	4K	8K	2	—	69	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105								
ML62Q1734C			128K																		

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

*2 工业设备用途的详情请垂询本公司。

	16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*1	Industria Grade*2
						PC	SSIO	UART									
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2	VLSx1	Max 192dot 24segx 8com	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP48-0707-0.50-ZK6	—	✓	✓	
													P-TQFP48-0707-0.50-ZK6	—	✓	✓	
													P-TQFP48-0707-0.50-ZK6	—	✓	✓	
													P-TQFP48-0707-0.50-ZK6	—	✓	✓	
													P-TQFP48-0707-0.50-ZK6	—	✓	✓	
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2	VLSx1	Max 216dot 27segx 8com	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓	
													P-TQFP52-1010-0.65-ZK6	—	✓	✓	
													P-TQFP52-1010-0.65-ZK6	—	✓	✓	
													P-TQFP52-1010-0.65-ZK6	—	✓	✓	
													P-TQFP52-1010-0.65-ZK6	—	✓	✓	
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx2	VLSx1	Max 280dot 35segx 8com	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
	8 (8bitx16)	8 (TMR, PWM, IGBT, Capture)	1	10bitx16 (SA type)	8bitx2	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx6	VLSx1	Max 360dot 45segx 8com	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓	
													P-QFP80-1414-0.65-ZK6	—	✓	✓	
													P-QFP80-1414-0.65-ZK6	—	✓	✓	
													P-QFP80-1414-0.65-ZK6	—	✓	✓	
													P-QFP80-1414-0.65-ZK6	—	✓	✓	
													P-QFP80-1414-0.65-ZK6	—	✓	✓	
													P-QFP80-1414-0.65-ZK6	—	✓	✓	
	8 (8bitx16)	8 (TMR, PWM, IGBT, Capture)	1	10bitx16 (SA type)	8bitx2	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx6	VLSx1	Max 480dot 60segx 8com	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓	
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓	
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓	
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓	
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓	
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓	
													P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓	
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx3	VLSx1	Max 216dot 27segx 8com	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓	
													P-TQFP52-1010-0.65-ZK6	—	✓	✓	
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx4	VLSx1	Max 280dot 35segx 8com	10	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
													P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓	
	6 (8bitx12)	6 (TMR, PWM, IGBT, Capture)	1	10bitx12 (SA type)	8bitx1	Master/ Slavex1, Masterx2	UART Full Duplex/ SSIOx4	VLSx1	Max 360dot 45segx 8com	12	Safety function, Multiplier/Divider, Comparatorx2, DMA	—	P-QFP80-1414-0.65-ZK6	—	✓	✓	
													P-QFP80-1414-0.65-ZK6	—	✓	✓	



16bit ML62Q1000系列(搭载U16 Core)

标准型 ML62Q1800组 16bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	
						Input	Output	Input/Output	High Speed	Low Speed				
ML62Q1858	1.6 to 5.5	Flash	384K	8K	32K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	6.0/4.5μA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1859			512K											
ML62Q1868	1.6 to 5.5	Flash	384K	8K	32K	2	—	72	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	6.0/4.5μA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1869			512K											
ML62Q1878	1.6 to 5.5	Flash	384K	8K	32K	2	—	92	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	6.0/4.5μA (Internal RC oscillation/ Crystal oscillation)	-40 to +105	
ML62Q1879			512K											

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

*2 工业设备用途的详情请垂询本公司。

低功耗微控制器(16bit)

16bit ML620Q500系列(搭载U16 Core)

标准型 16bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	Co-processor for Multiplication and Division	8bit Timer	16bit Multi Functions Timer	
						Input	Output	Input/Output	High Speed	Low Speed							
ML620Q503H	1.8 to 5.5	Flash	32K	2K	2K	2	—	36	16MHz (Internal RC oscillation/ Crystal oscillation/ External input)	32.768kHz (Internal RC oscillation/ Crystal oscillation/ External input)	62.5ns/ 30.5μs	0.45μA (Crystal oscillation)	-40 to +85	✓	8 (16bitx4)	4	
ML620Q504H			64K		6K												

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

*2 工业设备用途的详情请垂询本公司。

USB接口及安全功能用微控制器 (32bit)

32bit ML630Q400(搭载ARM® Cortex®—M0+)

搭载LCD驱动器 点阵式 32bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	Co-processor for Multiplication and Division	8bit Timer	16bit Multi Functions Timer	
						Input	Output	Input/Output	High Speed	Low Speed							
ML630Q464	1.8 to 3.6	Flash	64K	2K	8K	—	—	38	16MHz (Internal RC oscillation) 24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41.7ns/ 30.5μs	0.8μA (Crystal oscillation)	-40 to +85	32bit multiplier	8 (16bitx4)	4	
ML630Q466			128K		16K												

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

*2 工业设备用途的详情请垂询本公司。

(LAPIS Technology产品)

	16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*1	Industrial Grade*2
						I ² C	SSIO	UART									
	6 (8bit×12)	6 (TMR, PWM, IGBT, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	—	✓	✓
	8 (8bit×16)	8 (TMR, PWM, IGBT, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-QFP80-1414-0.65-ZK6 P-QFP80-1414-0.65-ZK6	—	✓	✓
														P-QFP80-1414-0.65-ZK6 P-QFP80-1414-0.65-ZK6	—	✓	✓
	8 (8bit×16)	8 (TMR, PWM, IGBT, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	—	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	—	✓	✓

(LAPIS Technology产品)

	PWM	Capture	WDT	ADC (method)	Serial Port				Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*1	Industrial Grade*2
					I ² C	SSIO (SPI)	UART	USB									
	16bit×4 (use 16bit Timer)	16bit×4 (use 16bit Timer)	1	24bit×2 (RC type) 12bit×12 (SA type)	Master ×2	2	Full Duplex ×2	—	VLS×1, LLD×1	—	8	Low speed frequency correction, Analog comparator×2, Melody: Buzzer	—	P-TQFP48-0707-0.50-ZK6 P-QFP48-0707-0.50-ZK6	✓	✓	✓
														P-TQFP48-0707-0.50-ZK6 P-QFP48-0707-0.50-ZK6	✓	✓	✓

(LAPIS Technology产品)

	PWM	Capture	WDT	ADC (method)	Serial Port				Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*1	Industrial Grade*2
					I ² C	SSIO (SPI)	UART	USB									
	16bit×4 (use 16bit Timer)	16bit×4 (use 16bit Timer)	1	24bit×2 (RC type) 12bit×12 (SA type)	Master/ Slave ×2	2	Full Duplex ×2	1	VLS×1, LLD×1	Max 400dot 50seg×8com	8	AES 128bit HW accelerator (CBC, CTR, CTR), Random generator, DMA, RTC, Analog comparator×2, 1kHz Timer	—	P-TQFP100-1414-0.50-ZK6 P-TQFP100-1414-0.50-ZK6	—	✓	✓
														P-TQFP100-1414-0.50-ZK6 P-TQFP100-1414-0.50-ZK6	—	✓	✓

低电压工作微控制器(8bit)

8bit ML610400/ML610Q400(搭载U8 Core)

标准型 8bit微控制器

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	8bit Timer	1kHz Timer	PWM	Capture	WDT
						Input	Output	Input/Output	High Speed	Low Speed								

ML610Q482	1.1 to 3.6	Flash	64K	—	4K	6	4	22	4.096MHz 500kHz	32.768kHz (Crystal oscillation)	0.244μs/ 2μs/ 30.5μs	0.5μA	-20 to +70	4 (16bit×2)	—	16bit×1	—	1
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标准型 8bit微控制器(工业设备用)

ML610Q482P	1.1 to 3.6	Flash	64K	—	4K	6	4	22	4.096MHz 500kHz	32.768kHz (Crystal oscillation)	0.244μs/ 2μs/ 30.5μs	0.5μA	-40 to +85	4 (16bit×2)	—	16bit×1	—	1
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搭载LCD驱动器 点阵式 8bit微控制器

ML610Q421	1.1 to 3.6	Flash	32K	—	2K	6	3	22	4.096MHz 500kHz	32.768kHz (Crystal oscillation)	0.244μs/ 2μs/ 30.5μs	0.5μA	-20 to +70	4 (16bit×2)	1	16bit×1	2	1
ML610Q422								14		32.768kHz (Crystal oscillation)								
ML610Q429	1.1 to 3.6	Flash	48K	—	4K	10	3	20	4.096MHz 2MHz	32.768kHz (Crystal oscillation)	0.244μs/ 2μs/ 30.5μs	0.5μA	-20 to +70	2 (16bit×1)	1	16bit×3	—	1
ML610Q431	1.1 to 3.6	Flash	64K	—	3K	6	3	22	4.096MHz 500kHz	32.768kHz (Crystal oscillation)	0.244μs/ 2μs/ 30.5μs	0.5μA	-20 to +70	4 (16bit×2)	1	16bit×1	2	1
ML610Q432								14										
ML610Q435	1.1 to 3.6	Flash	96K	—	3K	6	3	22	4.096MHz 500kHz	32.768kHz (Crystal oscillation)	0.244μs/ 2μs/ 30.5μs	0.5μA	-20 to +70	4 (16bit×2)	1	16bit×1	2	1
ML610Q436								14										
ML610Q438	1.1 to 3.6	Flash	128K	—	7K	10	3	20	4.096MHz 2MHz	32.768kHz (Crystal oscillation)	0.244μs/ 0.5μs/ 30.5μs	0.5μA	-20 to +70	4 (16bit×2)	1	16bit×3	2	1

搭载LCD驱动器 点阵式 8bit微控制器(工业设备用)

ML610Q421P	1.1 to 3.6	Flash	32K	—	2K	6	3	22	4.096MHz 500kHz	32.768kHz (Crystal oscillation)	0.244μs/ 2μs/ 30.5μs	0.5μA	-40 to +85	4 (16bit×2)	1	16bit×1	2	1
ML610Q422P								14										
ML610Q439P			128K		7K	10	3	20	4.096MHz 2MHz		0.244μs/ 0.5μs/ 30.5μs					16bit×3		

搭载LCD驱动器 段码式 8bit微控制器

ML610Q407	1.25 to 3.6	Flash	16K	—	1K	5	12	22	2MHz	32.768kHz (Crystal oscillation)	0.5μs/ 30.5μs	0.9μA	-20 to +70	4 (16bit×2)	—	16bit×1	2	1
ML610Q407A								22										
ML610Q408	1.25 to 3.6	Flash	16K	—	1K	5	8	22	2MHz	32.768kHz (Crystal oscillation)	0.5μs/ 30.5μs	0.9μA	-20 to +70	4 (16bit×2)	—	16bit×1	2	1
ML610Q411	1.1 to 3.6	Flash	16K	—	1K	6	3	22	500kHz	32.768kHz (Crystal oscillation)	2μs/ 30.5μs	0.5μA	-20 to +70	4 (16bit×2)	1	16bit×1	2	1
ML610Q412								14										
ML610Q419	1.1 to 3.6	Flash	64K	4K	2K	6	3	18	4.096MHz 500kHz	32.768kHz (Crystal oscillation)	0.244μs/ 2μs/ 30.5μs	0.9μA	-20 to +70	4 (16bit×2)	—	16bit×1	2	1
ML610Q419C								26										

搭载LCD驱动器 段码式 8bit微控制器(工业设备用)

ML610Q407P	1.25 to 3.6	Flash	16K	—	1K	5	12	22	2MHz	32.768kHz (Crystal oscillation)	0.5μs/ 30.5μs	0.9μA	-40 to +85	4 (16bit×2)	—	16bit×1	2	1
ML610Q407PA								22										
ML610Q408P	1.25 to 3.6	Flash	16K	—	1K	5	8	22	2MHz	32.768kHz (Crystal oscillation)	0.5μs/ 30.5μs	0.9μA	-40 to +85	4 (16bit×2)	—	16bit×1	2	1
ML610Q411P	1.1 to 3.6	Flash	16K	—	1K	6	3	22	500kHz	32.768kHz (Crystal oscillation)	2μs/ 30.5μs	0.5μA	-40 to +85	4 (16bit×2)	1	16bit×1	2	1
ML610Q411PA								22										
ML610Q412P								14										

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

*2 工业设备用途的详情请垂询本公司。

(LAPIS Technology产品)

	ADC (method)	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Notes	Package	Chip Support	Halogen Free Support*1	Industrial Grade*2
		PC	SSIO	UART									
	24bit×2 (RC type)	Master x1	1	Half Duplex x1	BLD×1	—	5	Low speed frequency correction/ Buzzer	—	P-TQFP48-0707-0.50-ZK6	✓	✓	—
	24bit×2 (RC type)	Master x1	1	Half Duplex x1	BLD×1	—	5	Low speed frequency correction/ Buzzer	—	P-TQFP48-0707-0.50-ZK6	✓	✓	✓
	24bit×2 (RC type) 12bit×2 (SA type)	Master x1	1	Half Duplex x1	BLD×1	Max 400dot 50seg×8com Max 800dot 50seg×16com	5	Low speed frequency correction/ Melody: Buzzer	— Low-speed scillation stop detect reset: enable	P-TQFP120-1414-0.40-ZK6 P-TQFP120-1414-0.40-ZK6	✓ ✓	✓ ✓	— —
	24bit×2 (RC type)	Master x1	1	Half Duplex x1	BLD×1	Max 512dot 64seg×8com	9	Low speed frequency correction/ Melody: Buzzer	Selectable oscillation stop detection reset: function enable/ disable according to mask option	P-TQFP128-1414-0.40-ZK6	✓	✓	—
	24bit×2 (RC type) 12bit×2 (SA type)	Master x1	1	Half Duplex x1	BLD×1	Max 1024dot 64seg×16com Max 1536dot 64seg×24com	5	RTC/ Low speed frequency correction/ Melody: Buzzer	Low-speed oscillation stop detect reset: enable Low-speed oscillation stop detect reset: enable	P-LQFP144-2020-0.50-QK6 P-LQFP144-2020-0.50-QK6	✓ ✓	✓ ✓	— —
	24bit×2 (RC type) 12bit×2 (SA type)	Master x1	1	Half Duplex x1	BLD×1	Max 1024dot 64seg×16com Max 1536dot 64seg×24com	5	RTC/ Low speed frequency correction/ Melody: Buzzer	Low-speed oscillation stop detect reset: enable Low-speed oscillation stop detect reset: enable	— —	✓ ✓	✓ ✓	— —
	24bit×2 (RC type) 12bit×2 (SA type)	Master x1	1	Half Duplex x1	BLD×1	Max 1344dot 56seg×24com	9	Low speed frequency correction/ Melody: Buzzer	Selectable oscillation stop detection reset: function enable/ disable according to software	P-LQFP144-2020-0.50-QK6	✓	✓	—
	24bit×2 (RC type) 12bit×2 (SA type)	Master x1	1	Half Duplex x1	BLD×1	Max 400dot 50seg×8com Max 800dot 50seg×16com Max 1024dot 64seg×16com	5 9	Low speed frequency correction/ Melody: Buzzer	— Low-speed scillation stop detect reset: enable Selectable oscillation stop detection reset: function enable/ disable according to software	P-TQFP120-1414-0.40-ZK6 P-TQFP120-1414-0.40-ZK6 P-LQFP144-2020-0.50-QK6	✓ ✓ —	✓ ✓ ✓	✓ ✓ ✓
	16bit×2 (RC type)	—	2	Half Duplex x1	—	Max 145dot 29seg×5com	13 (include 8bit-OR input)	Low speed frequency correction/ Melody: Buzzer	Low-speed scillation stop detect reset: enable LCD bias: 1/3 Low-speed scillation stop detect reset: disable LCD bias: 1/2, 1/3	P-TQFP100-1414-0.50-ZK6 —	✓ ✓	✓ ✓	— —
	16bit×2 (RC type)	—	2	Half Duplex x1	—	Max 165dot 33seg×5com	13 (include 8bit-OR input)	Low speed frequency correction/ Melody: Buzzer	Low-speed scillation stop detect reset: enable LCD bias: 1/3	P-TQFP100-1414-0.50-ZK6	✓	✓	—
	24bit×2 (RC type) 12bit×2 (SA type)	Master x1	1	Half Duplex x1	BLD×1	Max 144dot 36seg×4com Max 176dot 44seg×4com	5	Low speed frequency correction/ Buzzer	Low-speed scillation stop detect reset: enable —	TQFP120-1414-0.40-ZK6 TQFP120-1414-0.40-ZK6	✓ ✓	✓ ✓	— —
	24bit×2 (RC type) 12bit×4 (SA type)	Master x1	2	Half Duplex x1	BLD×1	Max 192dot 48seg×4com Max 160dot 40seg×4com	5	Low speed frequency correction/ Melody: Buzzer	—	P-TQFP100-1414-0.50-ZK6 P-TQFP100-1414-0.50-ZK6	✓ ✓	✓ ✓	— —
	16bit×2 (RC type)	—	2	Half Duplex x1	—	Max 145dot 29seg×5com	13 (include 8bit-OR input)	Low speed frequency correction/ Melody: Buzzer	Low-speed scillation stop detect reset: enable LCD bias: 1/3 Low-speed scillation stop detect reset: disable LCD bias: 1/2, 1/3	P-TQFP100-1414-0.50-ZK6 —	✓ ✓	✓ ✓	✓ ✓
	16bit×2 (RC type)	—	2	Half Duplex x1	—	Max 165dot 33seg×5com	13 (include 8bit-OR input)	Low speed frequency correction/ Melody: Buzzer	Low-speed scillation stop detect reset: enable LCD bias: 1/3	P-TQFP100-1414-0.50-ZK6	✓	✓	✓
	24bit×2 (RC type) 12bit×4 (SA type)	Master x1	1	Half Duplex x1	BLD×1	Max 144dot 36seg×4com Max 176dot 44seg×4com	5	Low speed frequency correction/ Buzzer	Low-speed oscillation stop detect reset: enable Low-speed oscillation stop detect reset: disable —	TQFP120-1414-0.40-ZK6 TQFP120-1414-0.40-ZK6 TQFP120-1414-0.40-ZK6	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓

语音播放用微控制器(8bit)

8bit ML610Q300(搭载U8 Core)

标准型 8bit微控制器(工业设备用)

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	Memory for Sound	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
							Input	Output	Input/Output	High Speed	Low Speed			
New ML610Q305	2.0 to 5.5	Flash	96K	2K	Flash ROM	1K	1	3	12	8.192MHz	32.768kHz (Internal RC oscillation)	0.122μs/ 30.5μs	2.0μA	-40 to +85
New ML610Q306									15					
☆ML610Q317	2.0 to 5.5	Flash	160K	2K	Flash ROM	4K	0 (TBD)	6 (TBD)	26 (TBD)	8.192MHz	32.768kHz (Internal RC oscillation)	0.122μs/ 30.5μs	(TBD)	-40 to +85
☆ML610Q318									30 (TBD)					
☆ML610Q327	2.0 to 5.5	Flash	192K	2K	Flash ROM	4K	0 (TBD)	6 (TBD)	26 (TBD)	8.192MHz	32.768kHz (Internal RC oscillation)	0.122μs/ 30.5μs	(TBD)	-40 to +85
☆ML610Q328									30 (TBD)					
☆ML610Q329									42 (TBD)					
☆ML610Q338	2.0 to 5.5	Flash	256K	2K	Flash ROM	4K	0 (TBD)	6 (TBD)	30 (TBD)	8.192MHz	32.768kHz (Internal RC oscillation)	0.122μs/ 30.5μs	(TBD)	-40 to +85
☆ML610Q339									42 (TBD)					

*1 带无卤素标记✓，表示备有无卤素产品。详细内容请咨询销售人员。

*2 工业设备用途的详情请垂询本公司。

☆：开发中。本目录中的信息，如遇产品更新等其他原因而发生变更，恕不另行通知。

ML610/ML610Q/ML620Q/ML630Q品名构成说明

M	L	6	1	0	Q	4	1	9	C	N	N	N	T	B	x	x	x	x
①	②	③	④	⑤	⑥	⑦	⑧											

品名编号

①元件类型

ML：逻辑产品

②CPU内核类型

610：8bit CPU nX-U8/100

620：16bit CPU nX-U16/100

630：32bit CPU ARM® Cortex®

M0+

③ROM类型

None：Mask ROM

Q：Flash ROM

④型号代码

3xx：语音回放

4xx：低功耗或低电压型

5xx：低功耗

⑤选项代码

None~x：对每个产品进行设定

⑥ROM代码

NNN：留空

001~xxx：定制代码

⑦封装代码

GD：VQFN, WQFN

MB：SSOP

TD：TSSOP

TB：TQFP

GA：QFP

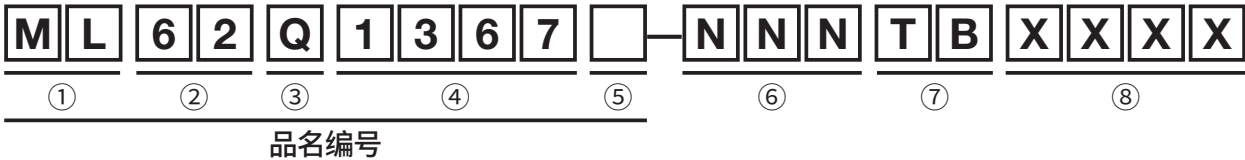
WA：Chip

⑧LAPIS Technology公司内部代码

(LAPIS Technology产品)

	8bit Timer	PWM	WDT	ADC (method)	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	SP Amp Output (W)/ Class	Others	Notes	Package	Chip Support	Halogen Free Support*1	Industrial Grade*2
					PC	SSIO	UART										
	4 (16bit×2)	—	1	10bit×3 (SA type)	Master/ Slave x1	2	Half Duplex x1	LLDx1	—	9	1.0 (@5V)/ D class	Speech function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	—	P-WQFN32-0505-0.50-A63	—	✓	✓
				10bit×4 (SA type)										P-TQFP32-0707-0.80-ZK6			
	4 (16bit×2)	3	1	10bit×8 (SA type)	Master/ Slave x1	2	Half Duplex x1	LLDx1	—	8	1.0 (@5V)/ D class	Speech function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	—	P-TQFP48-0707-0.50-ZK6	—	✓	✓
														P-TQFP52-1010-0.65-ZK6			
	4 (16bit×2)	3	1	10bit×8 (SA type)	Master/ Slave x1	2	Half Duplex x1	LLDx1	—	8	1.0 (@5V)/ D class	Speech function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	—	P-TQFP48-0707-0.50-ZK6	—	✓	✓
														P-TQFP52-1010-0.65-ZK6			
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6			
	4 (16bit×2)	3	1	10bit×8 (SA type)	Master/ Slave x1	2	Half Duplex x1	LLDx1	—	8	1.0 (@5V)/ D class	Speech function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	—	P-TQFP52-1010-0.65-ZK6	—	✓	✓
														P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6			

ML62Q1000系列品名构成说明



- ①元器件类型
ML：逻辑产品

②CPU内核类型
62：16bit CPU nX-U16/100

③ROM类型
Q：闪存ROM

④型号代码
13xx：ML62Q1300组
2x：16针
3x：20针
4x：24针
6x：32针

x3：ROM 16KB
x4：ROM 24KB
x5：ROM 32KB
x6：ROM 48KB
x7：ROM 64KB

⑤选项代码
None～x：对每个产品进行设定

⑥ROM代码
NNN：留空
001～xxx：定制代码

⑦封装代码
GD：WQFN
MB：SSOP
TD：TSSOP
TB：TQFP
GA：QFP

⑧LAPIS Technology公司内部代码
- 15xx：ML62Q1500组
3x：48针
4x：52针
5x：64针
6x：80针
7x：100针

x0：ROM 32KB
x1：ROM 48KB
x2：ROM 64KB
x3：ROM 96KB
x4：ROM 128KB
x5：ROM 160KB
x6：ROM 192KB
x7：ROM 256KB

17xx：ML62Q1700组
(内置LCD驱动器)
0x：48针
1x：52针
2x：64针
3x：80针
4x：100针

x0：ROM 32KB
x1：ROM 48KB
x2：ROM 64KB
x3：ROM 96KB
x4：ROM 128KB
x5：ROM 160KB
x6：ROM 192KB
x7：ROM 256KB
x8：ROM 384KB
x9：ROM 512KB

18xx：ML62Q1800组
5x：64针
6x：80针
7x：100针

x8：ROM 384KB
x9：ROM 512KB

微控制器

ROHM封装

Small 封装	P.112
SOP 封装	P.113
HSOP 封装	P.113
HTSOP 封装	P.113
SOP 特殊封装	P.114
Non-lead 封装	P.114
Optical Non-lead 封装	P.115
MMP 封装	P.116

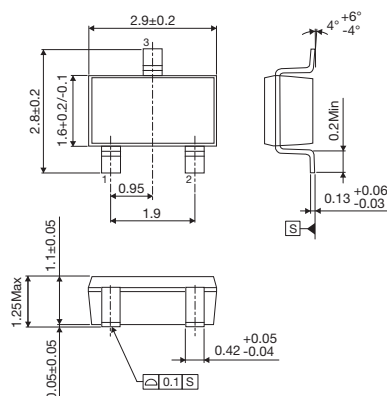
SON 封装	P.116
SON 特殊封装	P.116
QFP 封装	P.117
QFN 封装	P.118
BGA 封装	P.119
WL-CSP 封装	P.120
Power 封装	P.121

Small封装

(单位 : mm)

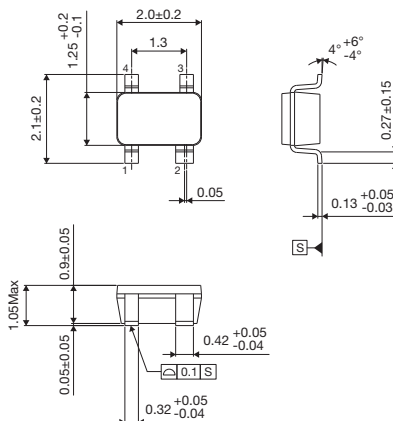
SOP封装

SSOP3



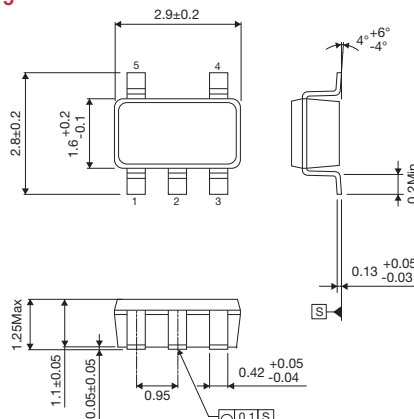
Taping: 3,000pcs

SOP4



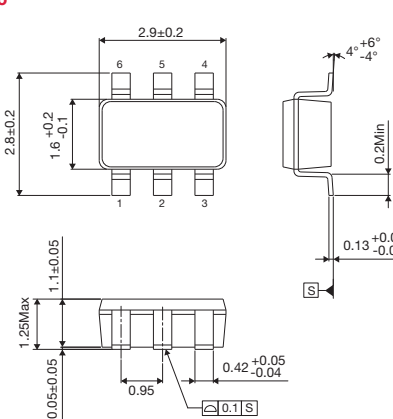
Taping: 3,000pcs

SSOP5



Taping: 3,000pcs

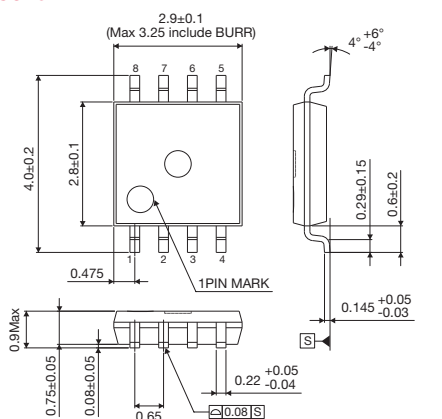
SSOP6



Taping: 3,000pcs

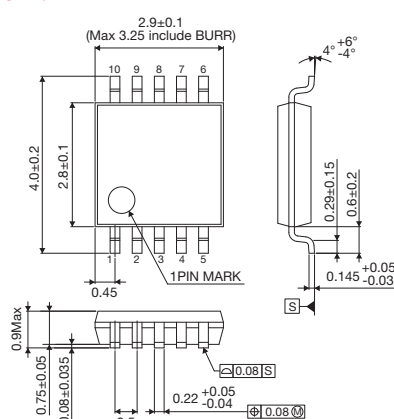
MSOP封装

MSOP8



Taping: 3,000pcs

MSOP10



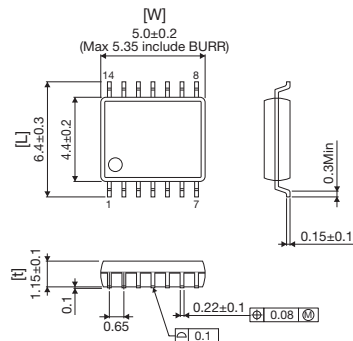
Taping: 3,000pcs

注 : Lapis Technology产品的封装请参照“Lapis Technology LSI封装”。

SOP封装

(单位: mm)

SSOP Package (for SSOP-B14)



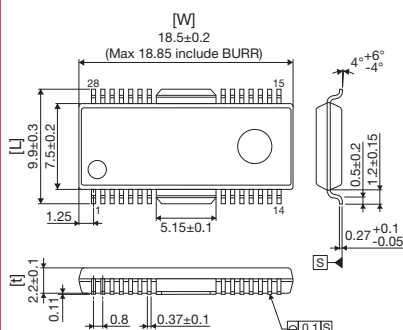
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
SOP Package Pin Pitch: 1.27mm	SOP8	8	6.2	5.0	1.61	2,500
	SOP-JW8		6.0	4.9	1.65	2,500
	SOP14	14	6.2	8.7	1.61	2,500
	SOP-J14		6.0	8.65	1.65	2,500
	SOP16	16	6.2	10.0	1.61	2,500
	SOP-J16A		6.0	9.9	1.55	2,500
	SOP18	18	7.8	11.2	1.91	2,000
	SOP20A	20	10.3	12.8	2.5	1,500
	SOP24	24	7.8	15.0	1.91	2,000
	SOP28	28	9.9	18.5	2.31	1,500
SSOP-A Package Pin Pitch: 0.8mm	SSOP-A16	16	6.2	6.6	1.61	2,500
	SSOP-A20	20	7.8	8.7	1.91	2,000
	SSOP-A24	24	7.8	10.0	1.9	2,000
	SSOP-A32	32	7.8	13.6	1.91	2,000
SSOP-B Package Pin Pitch: 0.65mm	SSOP-B8	8	6.4	3.0	1.25	2,500
	SSOP-B10W	10	10.2	3.5	1.9	1,500
	SSOP-B14	14	6.4	5.0	1.25	2,500
	SSOP-B16	16	6.4	5.0		2,500
	SSOP-B20	20	6.4	6.5		2,500
	SSOP-B20W		8.1	6.5	1.81	2,000
	SSOP-B24	24	7.6	7.8	1.25	2,000
	SSOP-B28	28	7.6	10.0		2,000
	SSOP-B28W		10.4	9.2	2.4	1,500
	SSOP-B40	40	7.8	13.6	1.9	2,000
TSSOP-B Package Pin Pitch: 0.65mm	TSSOP-B8	8	6.4	3.0	1.2	3,000
	TSSOP-B8J		4.9	3.0	1.1	2,500
	TSSOP-B14J	14	6.4	5.0	1.2	2,500
TSSOP-C Package Pin Pitch: 0.5mm	TSSOP-C48V	48	8.1	12.5	1.0	2,000

注: 尺寸详图请确认罗姆官网。

HSOP封装(双侧带散热片)

(单位: mm)

HSOP Package (for HSOP-M28)



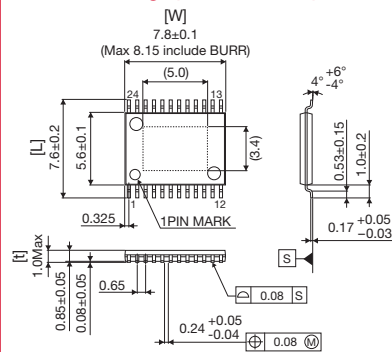
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
HSOP Package Pin Pitch: 1.27mm	HSOP20	20	7.8	14.9	2.1	2,000
HSOP Package Pin Pitch: 0.8mm	HSOP25	25	7.8	13.6	2.01	2,000
HSOP-M Package Pin Pitch: 0.8mm	HSOP-M28	28	9.9	18.5	2.31	1,500
	HSOP-M36	36	9.9	18.5	2.4	1,500

注: 尺寸详图请确认罗姆官网。

HTSOP封装(背面带散热片)

(单位: mm)

HTSSOP Package (for HTSSOP-B24)



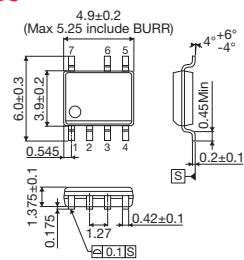
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
HTSOP Package Pin Pitch: 1.27mm	HTSOP-J8	8	6.0	4.9	1.0	2.4×3.2	2,500
	HTSOP-J8ES	8	6.0	4.9		1.8×2.2	2,500
HTSSOP-A Package Pin Pitch: 0.8mm	HTSSOP-A44	44	9.5	18.5	1.0	5.0×6.0	1,500
	HTSSOP-A44R		9.5	18.5		5.0×6.0 (surface)	1,500
HTSSOP-B Package Pin Pitch: 0.65mm	HTSSOP-B16	16	6.4	5.0	1.0	2.4×3.0	2,500
	HTSSOP-B20	20	6.4	6.5		2.4×4.0	2,500
	HTSSOP-B24	24	7.6	7.8		3.4×5.0	2,000
	HTSSOP-B28	28	6.4	9.7		2.9×5.5	2,500
	HTSSOP-B30	30	7.6	10.0		3.7×5.8	2,000
	HTSSOP-B40	40	7.8	13.6		3.4×8.4	2,000
HSSOP-C Package Pin Pitch: 0.5mm	HTSSOP-B54	54	9.5	18.5	1.7	5.0×6.0	1,500
	HSSOP-C16	16	6.0	4.9		about 2.5×4.12	2,500

注: 尺寸详图请确认罗姆官网。

SOP特殊封装

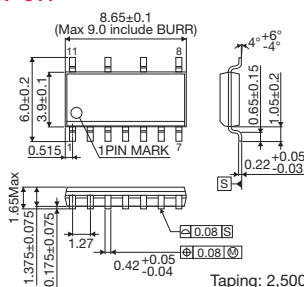
(单位: mm)

SOP-J7S



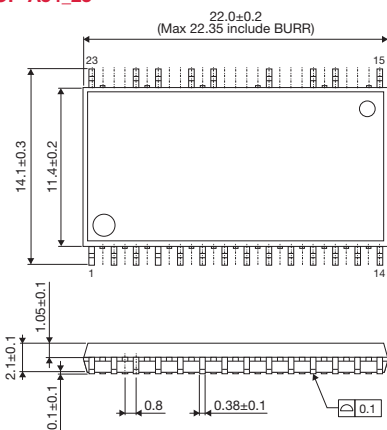
Taping: 2,500pcs

SOP-J11



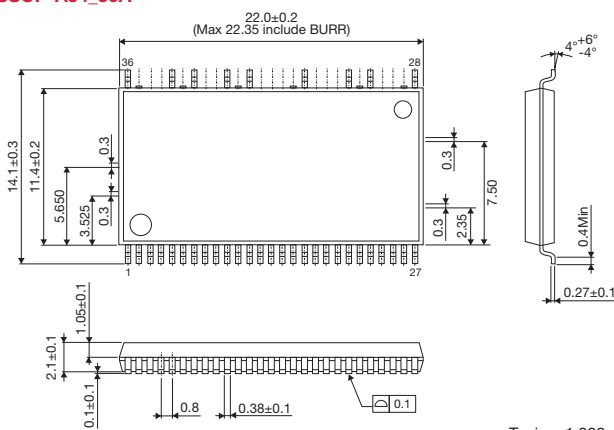
Taping: 2,500pcs

SSOP-A54_23



Taping: 1,000pcs

SSOP-A54_36A



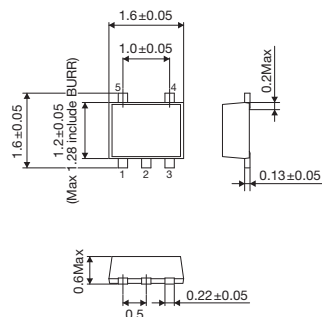
Taping: 1,000pcs

Non-lead封装

(单位: mm)

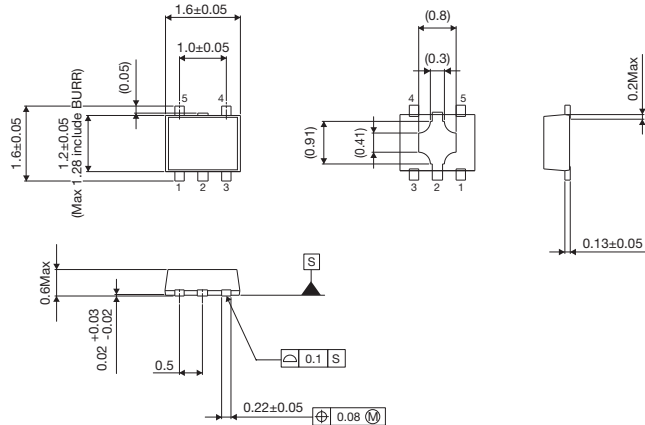
VSOF封装

VSOF5



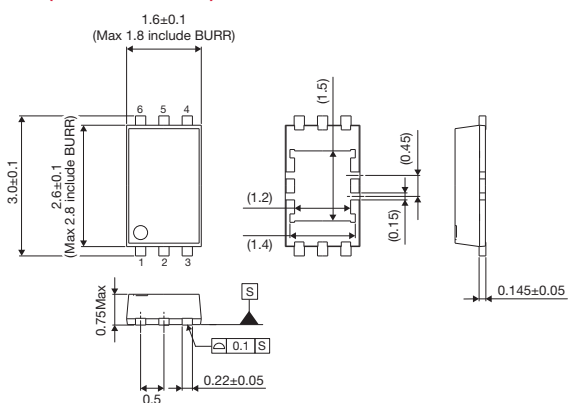
Taping: 3,000pcs

HVSOF5 (With back heat sink)



Taping: 3,000pcs

HVSOF6 (With back heat sink)



Taping: 3,000pcs

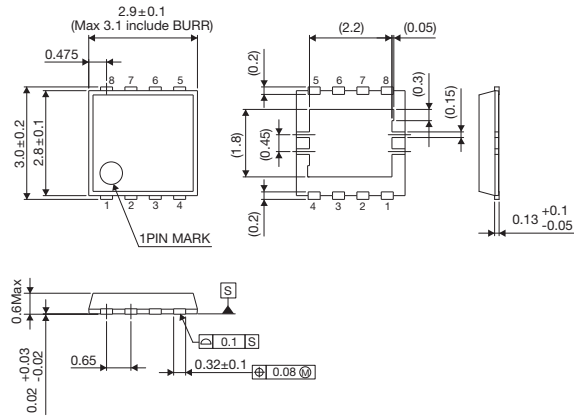
注: LAPIS Technology产品的封装请参照“LAPIS Technology LSI封装”。

Non-lead封装

(单位: mm)

HSO8封装(背面带散热片)

HSO8



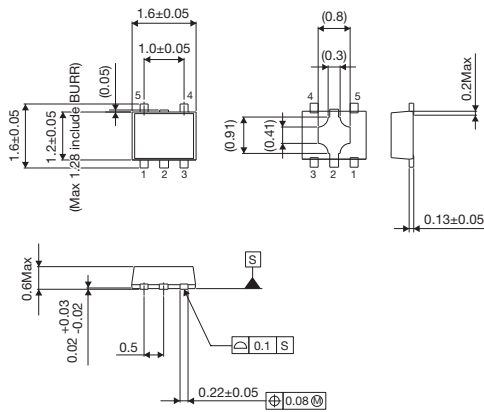
Taping: 3,000pcs

Optical Non-lead封装(背面带散热片)

(单位: mm)

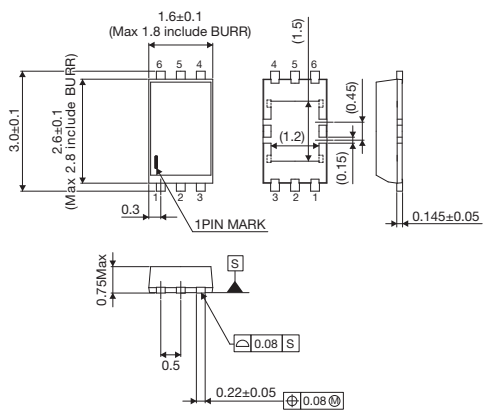
WSOF封装

WSOF5



Taping: 3,000pcs

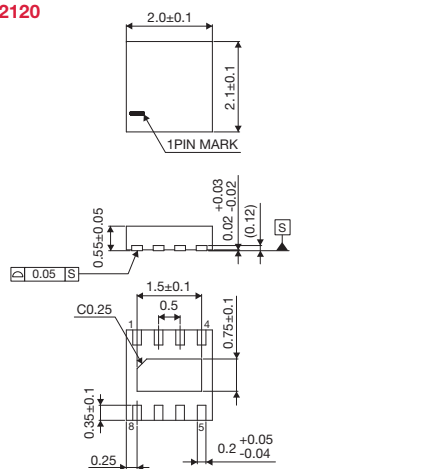
WSOF6



Taping: 3,000pcs

WSO8封装

WSO8008X2120



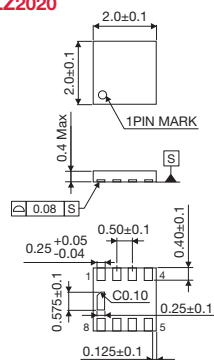
Taping: 4,000pcs

MMP封装

(单位: mm)

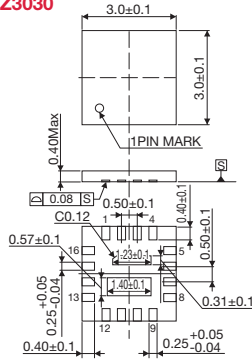
VMMP封装

VMMP08LZ2020



Taping: 4,000pcs

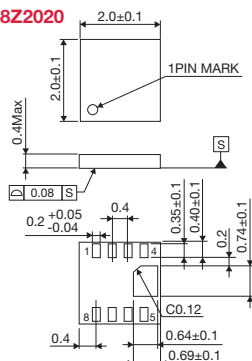
VMMP16LZ3030



Taping: 2,500pcs

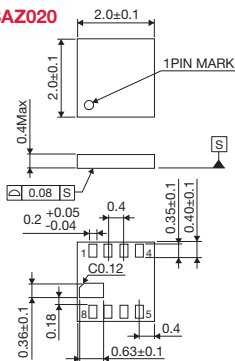
UMMP封装

UMMP008Z2020



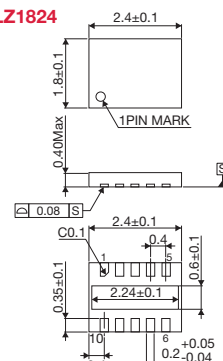
Taping: 4,000pcs

UMMP008AZ2020



Taping: 4,000pcs

UMMP10LZ1824

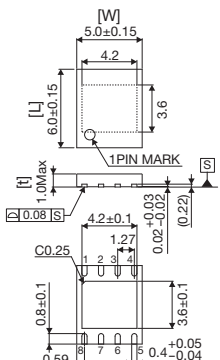


Taping: 2,500pcs

SON封装(背面带散热片)

(单位: mm)

SON Package (for SON008V5060)



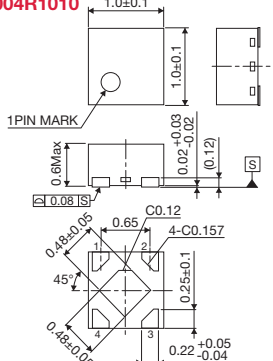
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
SON Package Pin Pitch: 1.27mm	SON008V5060	8	6.0	5.0	1.0	3.6×4.2	2,000
SSON Package Pin Pitch: 0.65mm	SSON004X1010	4	1.0	1.0	0.6	0.48×0.48	5,000
	SSON004X1216		1.6	1.2		0.8×0.75	5,000
USON Package Pin Pitch: 0.4mm	USON014X3020	14	2.0	3.0	0.6	0.8×2.5	4,000
	USON016X3315	16	1.5	3.3		0.6×2.9	4,000
VSON Package Pin Pitch: 0.5mm	VSON008V2030	8	3.0	2.0	1.0	1.4×1.5	3,000
	VSON008X2020		2.0	2.0	0.6	0.8×1.5	4,000
	VSON008X2030		3.0	2.0		1.4×1.5	4,000
	VSON010V3030	10	3.0	3.0	1.0	1.2×2.0	3,000
	VSON010X3020		2.0	3.0	0.6	0.64×2.0	4,000
	VSON010X3030		3.0	3.0		1.2×2.0	4,000
	VSON10FV3030		3.0	3.0	1.0	1.2×2.0	3,000

注: 尺寸详图请确认罗姆官网。

SON特殊封装(背面带散热片)

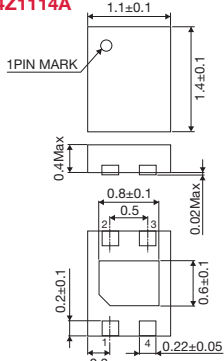
(单位: mm)

SSON004R1010



Taping: 5,000pcs

VSON04Z1114A



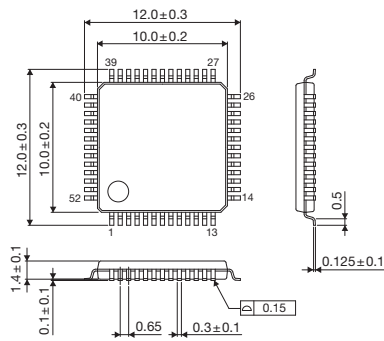
Taping: 5,000pcs

注: LAPIS Technology产品的封装请参照“LAPIS Technology LSI封装”。

QFP封装

(单位: mm)

SQFP Package (for SQFP-T52)



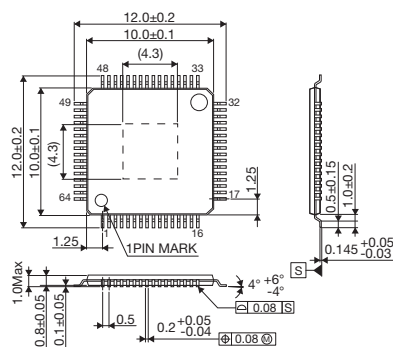
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs)	
						Tray	Taping
SQFP-T Package Pin Pitch: 0.65mm	SQFP-T52	52	12.0	12.0	1.5	1,000	1,000
	SQFP-T64	64	14.0	14.0		1,000	—
	SQFP-T80C	80	16.0	16.0		500	—
TQFP Package Pin Pitch: 0.5mm	TQFP48V	48	9.0	9.0	1.2	1,000	1,500
	TQFP64V	64	12.0	12.0	1.1	1,000	1,000
	TQFP100V	100	16.0	16.0	1.2	500	500
VQFP Package Pin Pitch: 0.5mm	VQFP48C	48	9.0	9.0	1.6	1,000	1,500
	VQFP64	64	12.0	12.0		1,000	1,000
	VQFP80	80	14.0	14.0		1,000	1,000
	VQFP100	100	16.0	16.0		500	500

注: LAPIS Technology产品的封装请参照“LAPIS Technology LSI封装”。

QFP封装(背面带散热片)

(单位: mm)

HTQFP Package (for HTQFP64AV)



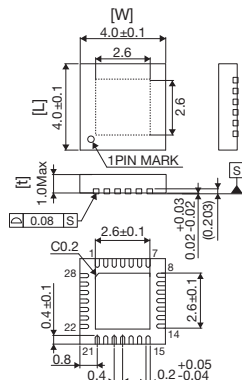
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs)	
							Tray	Taping
HTQFP Package Pin Pitch: 0.5mm	HTQFP64AV	64	12.0	12.0	1.0	4.3×4.3	—	1,000
	HTQFP64BV		12.0	12.0		6.5×6.5	—	1,000
HTQFP Package Pin Pitch: 0.4mm	HTQFP128UA	128	16.0	16.0	1.2	6.6×6.6	—	900
HQFP Package Pin Pitch: 0.5mm	HQFP144VM	144	22.0	22.0	1.6	6.0×6.0	—	60

注: LAPIS Technology产品的封装请参照“LAPIS Technology LSI封装”。

QFN封装(背面带散热片)

(单位: mm)

UQFN Package (for UQFN28V4040A)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
SQFN Package Pin Pitch: 0.65mm	SQFN016V4040	16	4.0	4.0	1.0	2.1×2.1	2,500
UQFN Package Pin Pitch: 0.4mm	UQFN28V4040A	28	4.0	4.0	1.0	2.6×2.6	2,500
	UQFN036V5050	36	5.0	5.0		2.7×2.7	2,500
	UQFN040V5050	40	5.0	5.0		3.3×3.3	2,500
	UQFN056V7070	56	7.0	7.0		4.7×4.7	1,500
	UQFN56BV7070		7.0	7.0		4.0×4.0	1,500
	UQFN68CV8080	68	8.0	8.0		4.3×4.3	1,000
	UQFN88MV0100	88	10.0	10.0		7.8×7.8	1,000
VQFN Package Pin Pitch: 0.5mm	VQFN11X3535A	11	3.5	3.5	0.6	—	2,500
	VQFN16FV3030	16	3.0	3.0	1.0	1.4×1.4	3,000
	VQFN16KV3030		3.0	3.0		1.4×1.4	3,000
	VQFN16Z3030A		3.0	3.0	0.4	1.8×1.8	4,000
	VQFN20	20	4.2	4.2	0.95	—	2,500
	VQFN20FV3535		3.5	3.5		2.05×2.05	2,500
	VQFN20PV3535		3.5	3.5		2.05×2.05	2,500
	VQFN20QV3535		3.5	3.5		2.05×2.05	2,500
	VQFN020V4040		4.0	4.0		2.1×2.1	2,500
	VQFN24FV4040	24	4.0	4.0	1.0	2.4×2.4	2,500
	VQFN24SV4040		4.0	4.0		2.4×2.4	2,500
	VQFN024V4040		4.0	4.0		2.4×2.4	2,500
	VQFN28FV5050	28	5.0	5.0		2.7×2.7	2,500
	VQFN28SV5050		5.0	5.0		2.7×2.7	2,500
	VQFN028V5050		5.0	5.0		2.7×2.7	2,500
	VQFN32FBV050	32	5.0	5.0		3.4×3.4	2,500
	VQFN32FAV050		5.0	5.0		3.4×3.4	2,500
	VQFN32SV5050		5.0	5.0		3.4×3.4	2,500
	VQFN032V5050		5.0	5.0		3.4×3.4	2,500
	VQFN36	36	6.2	6.2	0.95	—	2,500
	VQFN036V6060		6.0	6.0	1.0	3.6×3.6	2,000
	VQFN40W6060A	40	6.0	6.0	0.8	4.5×4.5	2,000
	VQFN040V6060		6.0	6.0	1.0	3.7×3.7	2,000
	VQFN48V7070A	48	7.0	7.0	0.9	5.3×5.3	1,500
	VQFN48MCV070		7.0	7.0	1.0	5.6×5.6	1,500
	VQFN48FV7070		7.0	7.0		3.2×3.2	1,500
	VQFN048V7070		7.0	7.0		4.7×4.7	1,500
	VQFN56AV8080	56	8.0	8.0	1.0	3.4×3.4	1,000
	VQFN56FV8080		8.0	8.0		5.5×5.5	1,000

注：尺寸详图请确认罗姆官网。

(单位: mm)

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
SBGA Package Pin Pitch: 0.65mm	SBGA072T070A	72	7.0	7.0	1.2	1,500
VBGA Package Pin Pitch: 0.5mm	VBGA048W040	48	4.0	4.0	0.9	2,500
	VBGA049W040A	49	4.0	4.0	0.8	2,500
	VBGA064T050A	64	5.0	5.0	1.2	2,500
	VBGA099W060	99	6.0	6.0	0.9	2,000

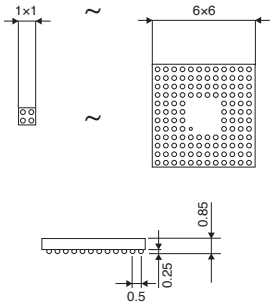
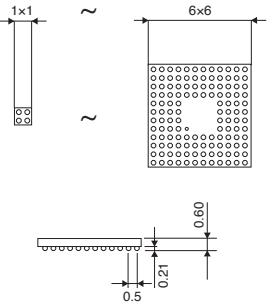
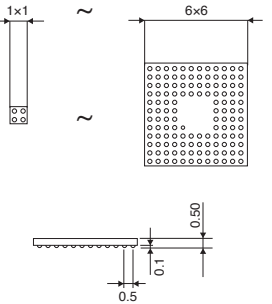
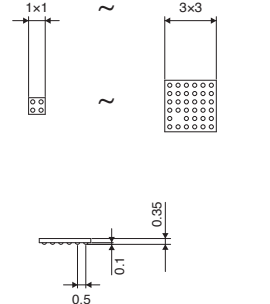
(单位: mm)

[illegible]

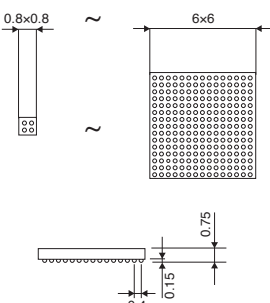
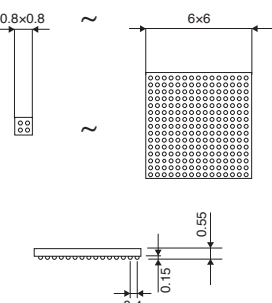
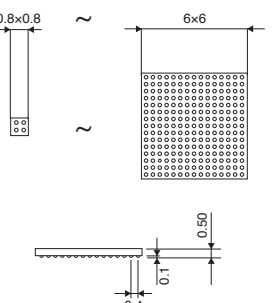
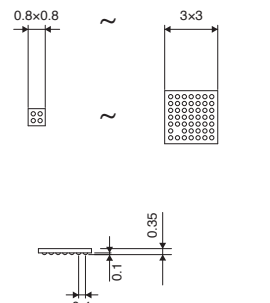
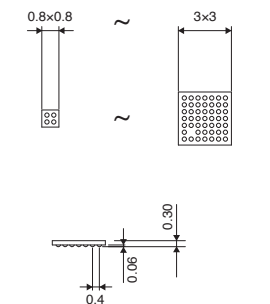
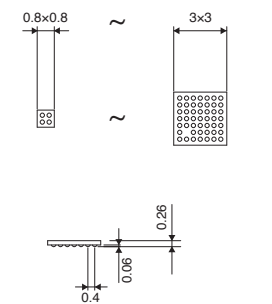
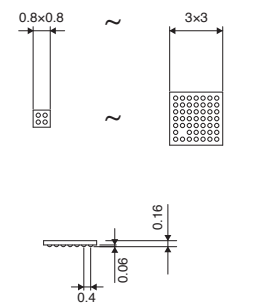
WL-CSP封装

(单位: mm)

VCSP <引脚间距: 0.5mm>

VCSP85H	VCSP60N	VCSP50L	VCSP35L
 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs

UCSP <引脚间距: 0.4mm>

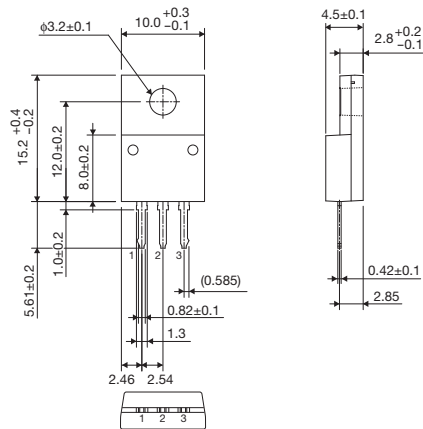
UCSP75M	UCSP55M	UCSP50L	UCSP35L
 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs
UCSP30L	UCSP25L	UCSP16X	
 2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs	 Embossed carrier tape: 3,000pcs	 Embossed carrier tape: 3,000pcs	

Power封装

(单位: mm)

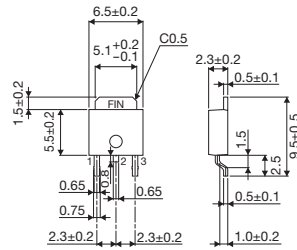
Power-3pin

TO220CP-3



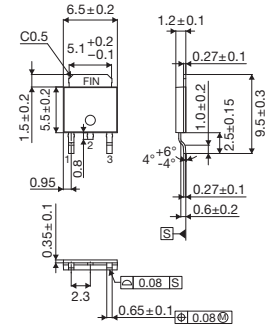
Taping: 500pcs

TO252-3



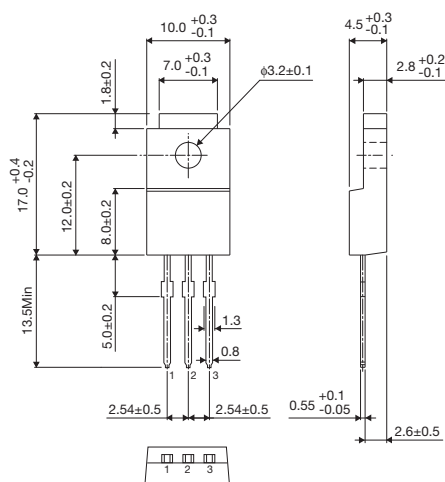
Taping: 2,000pcs

TO252S-3



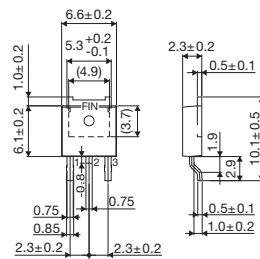
Taping: 2,000pcs

TO220FP-3



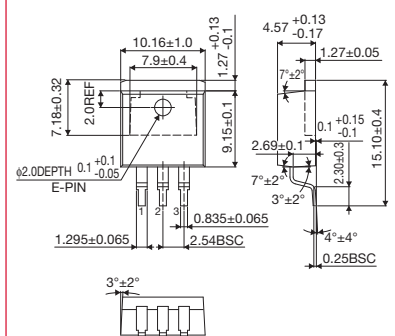
Container tube: 500pcs

TO252-J3



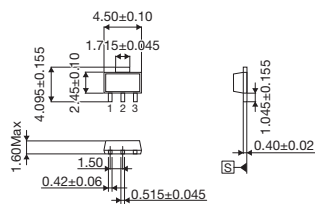
Taping: 2,000pcs

TO263-3



Taping: 500pcs

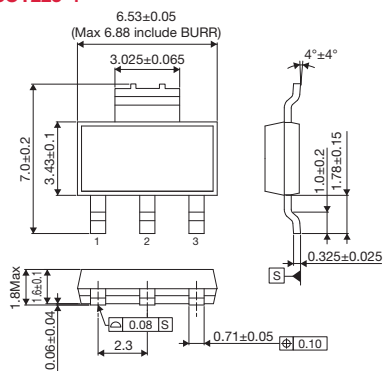
SOT89-3K



Taping: 1,000pcs

Power-4pin

SOT223-4



Taping: 2,000pcs

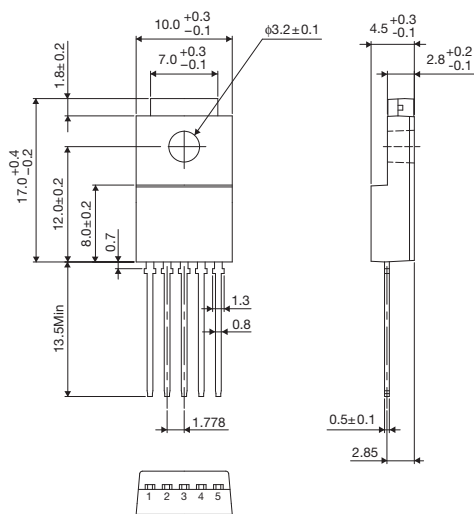
注: LAPIS Technology产品的封装请参照“LAPIS Technology LSI封装”。

Power封装

(单位: mm)

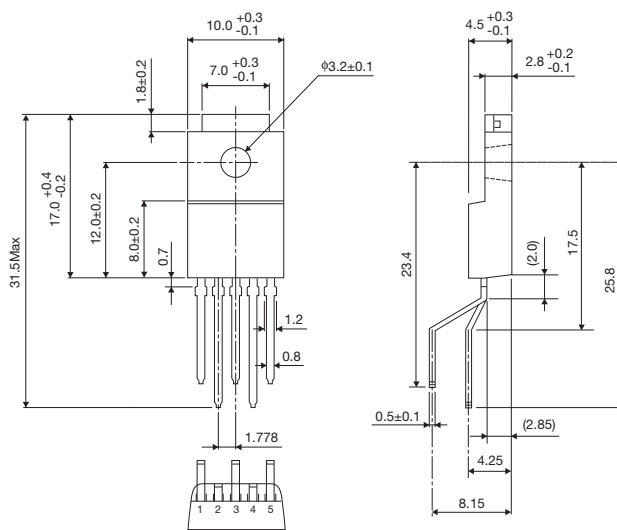
Power-5pin

TO220FP-5



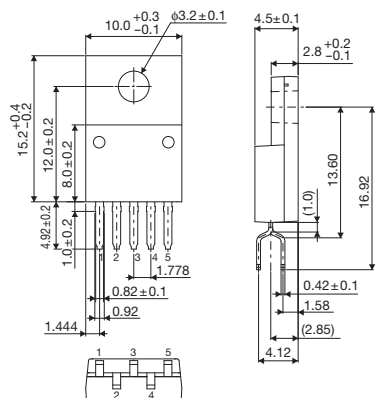
Tube: 500pcs

TO220FP-5 (V5)



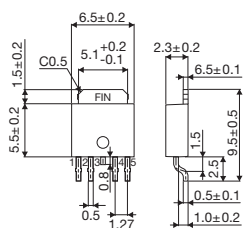
Tube: 500pcs

TO220CP-V5



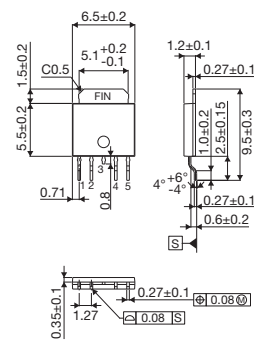
Taping: 500pcs

TO252-5



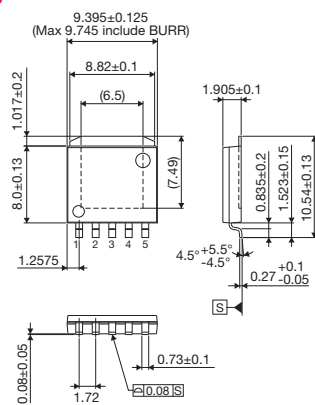
Taping: 2,000pcs

TO252-S5



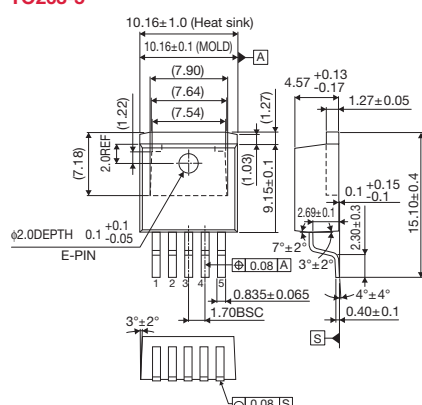
Taping: 2,000pcs

HRP5



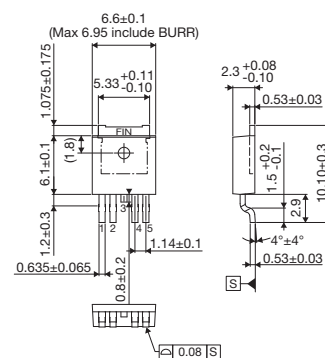
Taping: 2,000pcs

TO263-5



Taping: 500pcs

TO252-J5



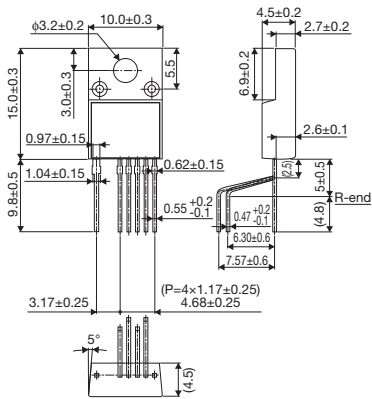
Taping: 2,000pcs

Power封装

(单位: mm)

Power-6pin

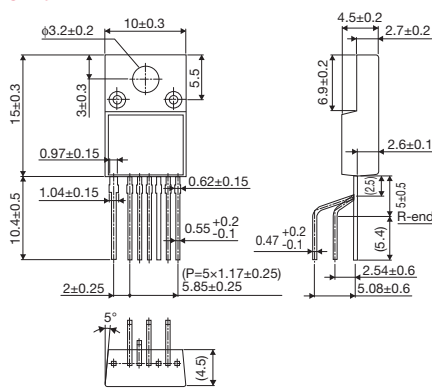
TO220-6M



Container tube: 238pcs

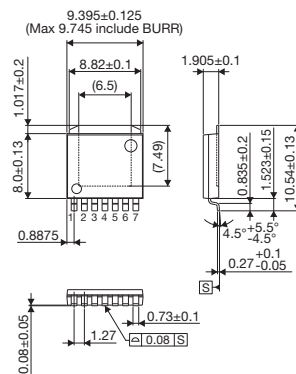
Power-7pin

TO220-7M



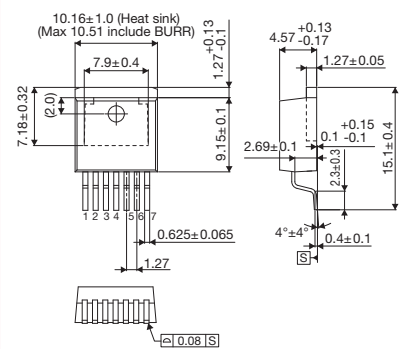
Container tube: 238pcs

HRP7



Taping: 2,000pcs

TO263-7

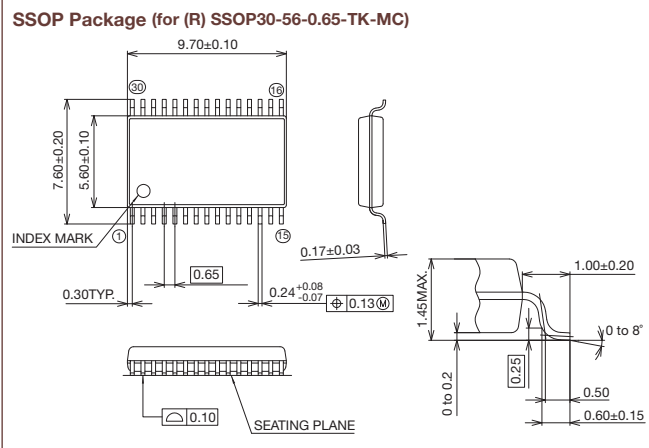


Taping: 2,000pcs

刊载各封装的代表性外形图。详细内容请咨询销售人员。

SOP封装

(单位: mm)



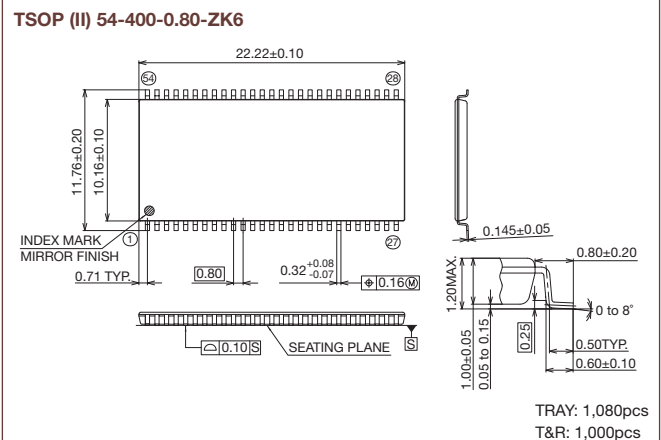
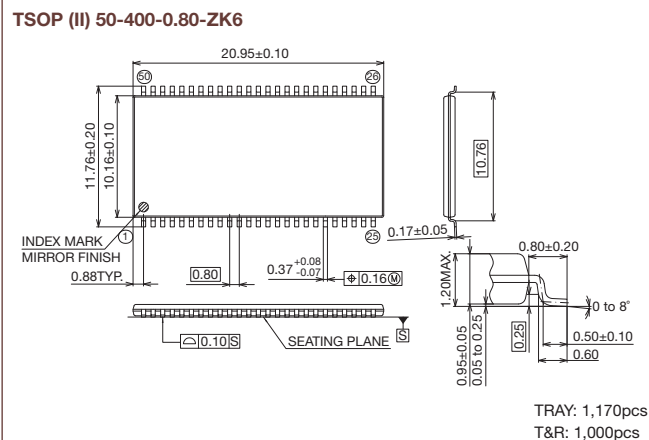
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
SSOP Package Pin Pitch: 1mm	SSOP32-430-1.00-K6	32	12.0	15.95	2.50	1,280	1,000
SSOP Package Pin Pitch: 0.65mm	(P-) SSOP16-0225-0.65-SK	16	6.4	5.0	1.15	4,760	2,500
	(P-) SSOP16-0225-0.65-TK6	16	6.4	5.0	1.15	4,760	2,500
	(P-) SSOP30-56-0.65-TK-MC	30	7.6	9.7	1.45	2,000	2,000
	(P-) SSOP30-56-0.65-Z6K6	30	7.6	9.7	1.50	2,000	2,000
	(P-) SSOP30-56-0.65-Z6K8-MC	30	7.6	9.7	1.85	2,000	2,000
	(P-) SSOP30-56-0.65-ZK6	30	7.6	9.7	1.85	2,000	2,000
	(P-) SSOP30-56-0.65-ZK6-MC	30	7.6	9.7	1.85	2,000	2,000
TSSOP Package Pin Pitch: 0.65mm	(P-) TSSOP20-0225-0.65-TK6	20	6.4	6.5	1.10	4,160	2,000
VSSOP Package Pin Pitch: 0.65mm	P-VSSOP8-0150-0.65-TK6	8	4.0	2.9	0.90	—	3,000

注: 尺寸详图请确认LAPIS Technology官网。

TSOP封装

(单位: mm)

TSOP (Type II)

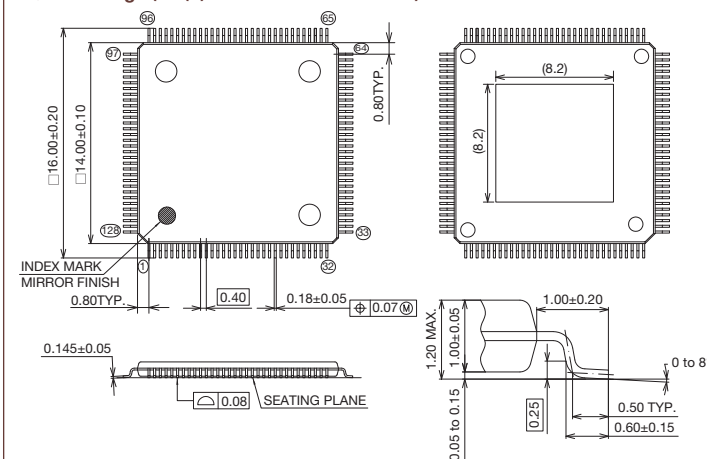


刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFP封装

(单位: mm)

TQFP Package (for R) TQFP128-1414-0.40-Z6K6



QFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
QFP Package Pin Pitch: 0.8mm	QFP44-P-910-0.80-2K	44	13.5	14.5	2.25	1,440	1,000
	(P-) QFP64-1414-0.80-ZK6	64	17.2	17.2	2.80	840	—
	(P-) QFP80-1420-0.80-BK6	80	19.0	25.0	2.50	600	—
QFP Package Pin Pitch: 0.65mm	(P-) QFP56-910-0.65-2K6	56	13.5	14.5	2.25	1,400	1,000
	(P-) QFP80-1414-0.65-ZK6	80	17.2	17.2	3.05	840	—
	(P-) QFP100-1420-0.65-BK6	100	19.0	25.0	2.50	600	—

注：尺寸详图请确认LAPIS Technology官网。

LQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
LQFP Package Pin Pitch: 0.8mm	(P-) LQFP32-0707-0.80-TK6	80	9.0	9.0	1.600	2,500	1,000
LQFP Package Pin Pitch: 0.65mm	(P-) LQFP144-2020-0.50-QK6	50	22.0	22.0	1.600	600	—

注：尺寸详图请确认LAPIS Technology官网。

TQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
TQFP Package Pin Pitch: 0.80mm	(P-) TQFP32-0707-0.80-Z6K6	32	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP32-0707-0.80-Z6K6-MC	32	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP44-1010-0.80-ZK6	44	12.0	12.0	1.20	1,600	1,000
TQFP Package Pin Pitch: 0.65mm	(P-) TQFP52-1010-0.65-ZK6	52	12.0	12.0	1.20	1,600	1,000
TQFP Package Pin Pitch: 0.5mm	(P-) TQFP48-0707-0.50-RK6	48	9.0	9.0	1.10	2,500	1,000
	(P-) TQFP48-0707-0.50-SK6	48	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP48-0707-0.50-Z6K6	48	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP48-0707-0.50-Z6K6-MC	48	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP48-0707-0.50-Z9K6-MC	48	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP48-0707-0.50-ZK6	48	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP64-1010-0.50-ZK6	64	12.0	12.0	1.20	1,600	1,000

注：尺寸详图请确认LAPIS Technology官网。

刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFP封装 (单位: mm)

QFP封装 (单位: mm)

TQFP

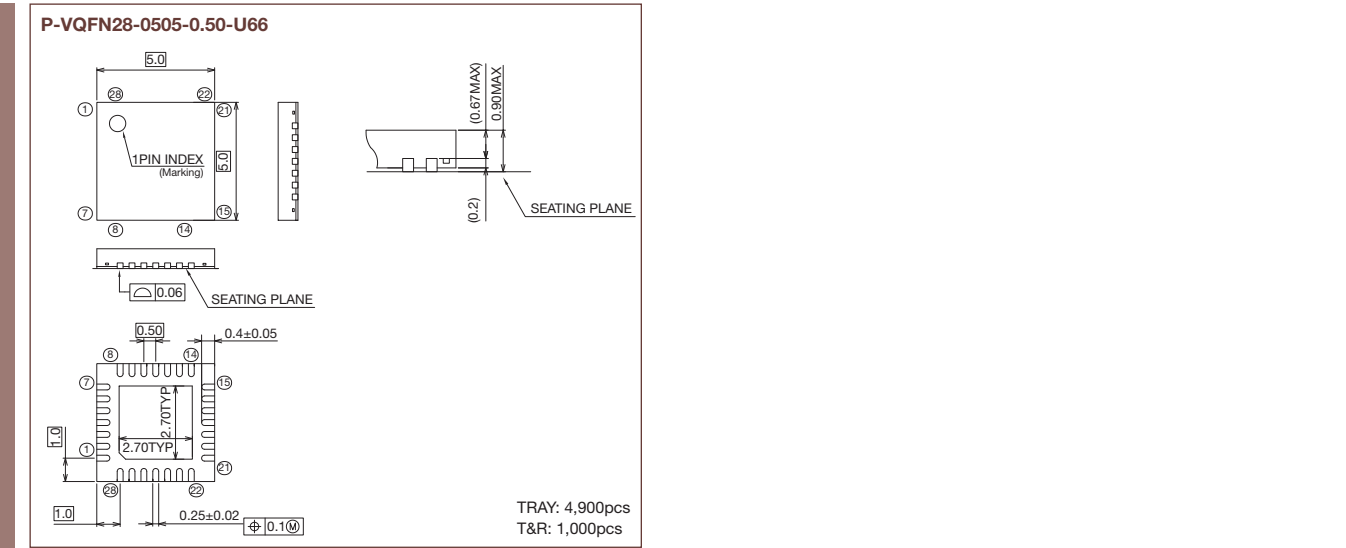
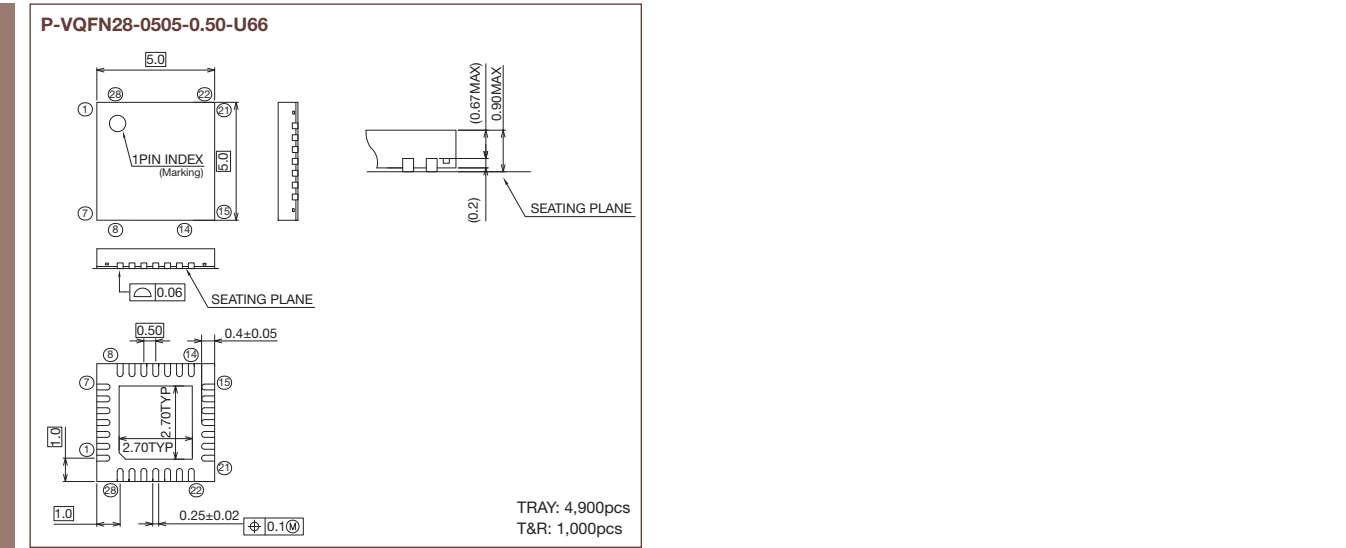
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
TQFP Package Pin Pitch: 0.5mm	(P-) TQFP80-1212-0.50-TK	80	14.0	14.0	1.20	1,190	—
	(P-) TQFP80-1212-0.50-ZK6	80	14.0	14.0	1.20	1,190	—
	(P-) TQFP100-1414-0.50-Z6K6	100	16.0	16.0	1.20	900	—
	(P-) TQFP100-1414-0.50-ZK6	100	16.0	16.0	1.20	900	—
TQFP Package Pin Pitch: 0.40mm	(P-) TQFP80-1010-0.40-ZK6	80	12.0	12.0	1.20	1,600	—
	(P-) TQFP120-1414-0.40-ZK6	120	16.0	16.0	1.20	900	—
	(P-) TQFP128-1414-0.40-ZK6	128	16.0	16.0	1.20	900	—
	(P-) TQFP128-1414-0.40-Z6K6	128	16.0	16.0	1.20	900	—
	(P-) TQFP128-1414-0.40-Z6K6-MC	128	16.0	16.0	1.20	900	—
	(P-) TQFP128-1414-0.40-ZK6-MC	128	16.0	16.0	1.20	900	—

注：尺寸详图请确认LAPIS Technology官网。

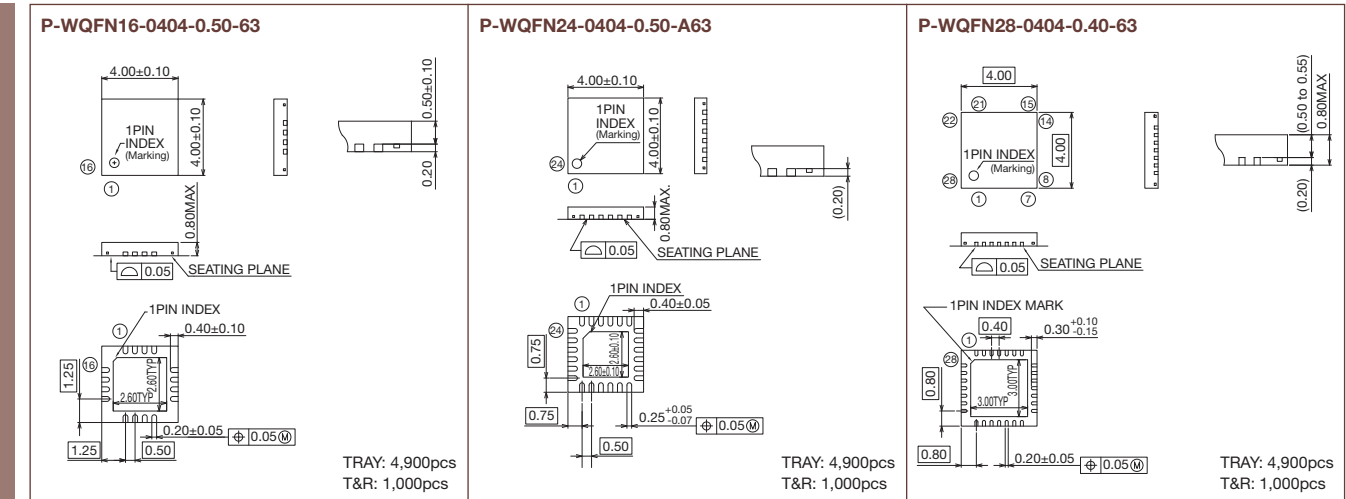
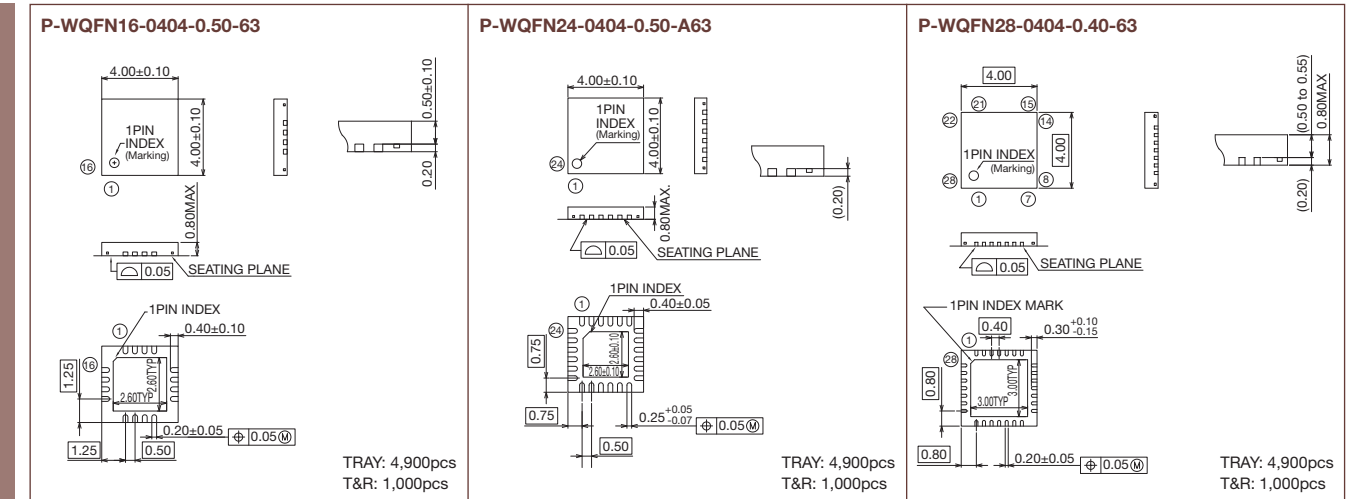
QFN封装 (单位: mm)

QFN封装 (单位: mm)

VQFN



WQFN



P-WQFN16-0404-0.50-63

Top view: 16-pin package, 4.00±0.10 mm width, 4.00±0.10 mm height, 0.80 MAX mm pin length, 0.20 mm pin pitch, 0.05 mm seating plane.

Side view: 0.50±0.10 mm height, 0.20 mm pin pitch.

Bottom view: 1.25 mm pin length, 0.50 mm pin pitch, 0.20±0.05 mm pin length, 0.05 mm pin pitch, 0.05 mm pin pitch.

TRAY: 4,900pcs
T&R: 1,000pcs

P-WQFN24-0404-0.50-A63

Top view: 24-pin package, 4.00±0.10 mm width, 4.00±0.10 mm height, 0.80 MAX mm pin length, 0.20 mm pin pitch, 0.05 mm seating plane.

Side view: 0.50±0.10 mm height, 0.20 mm pin pitch.

Bottom view: 1.25 mm pin length, 0.50 mm pin pitch, 0.20±0.05 mm pin length, 0.05 mm pin pitch, 0.05 mm pin pitch.

TRAY: 4,900pcs
T&R: 1,000pcs

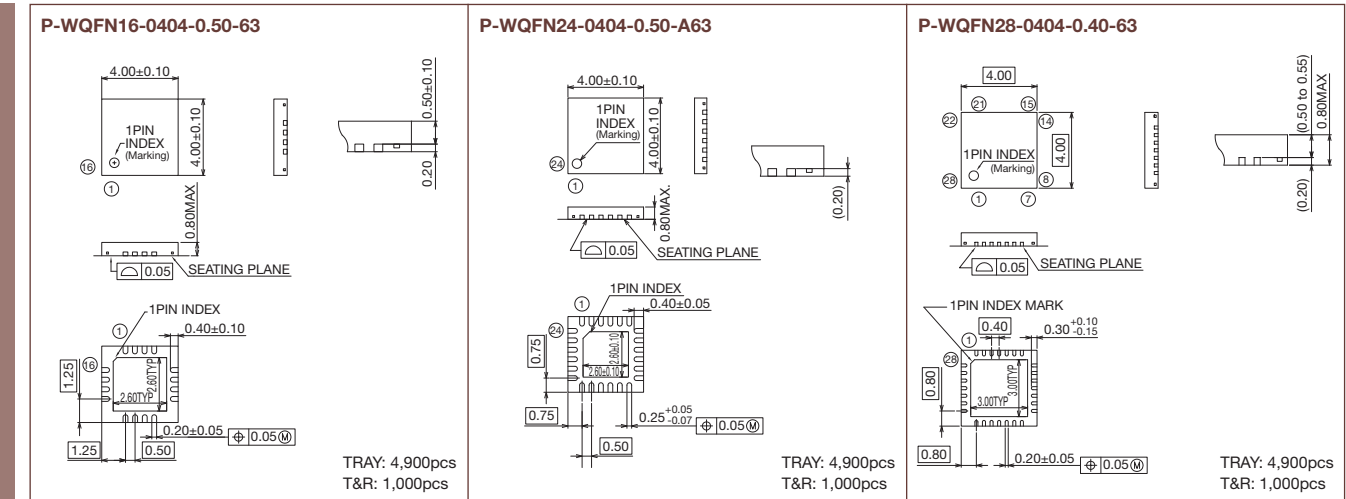
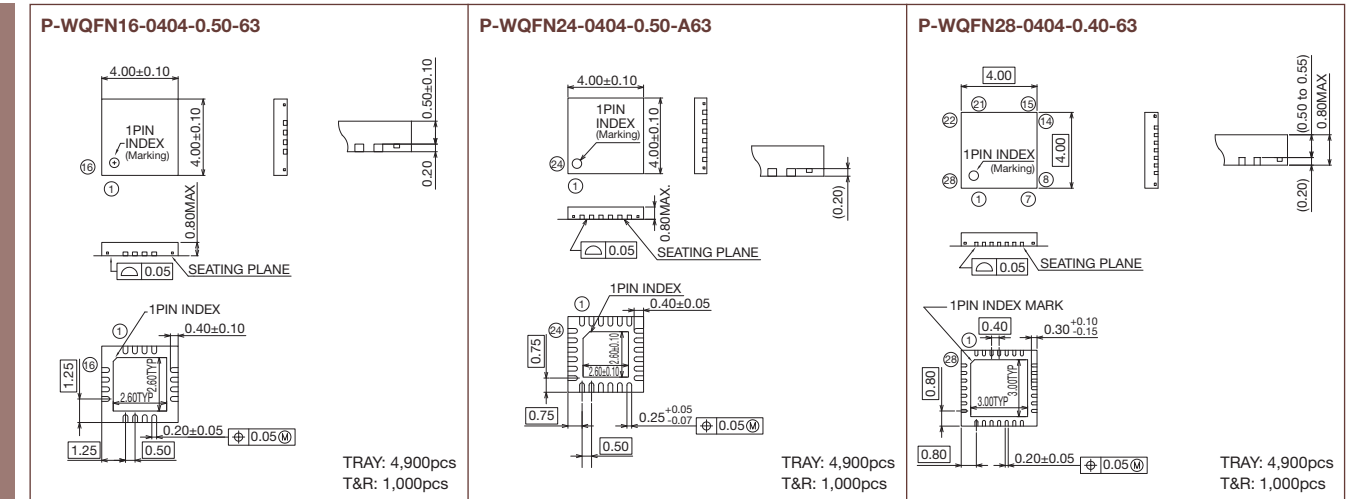
P-WQFN28-0404-0.40-63

Top view: 28-pin package, 4.00 mm width, 4.00 mm height, 0.80 MAX mm pin length, 0.20 mm pin pitch, 0.05 mm seating plane.

Side view: 0.50±0.10 mm height, 0.20 mm pin pitch.

Bottom view: 1.25 mm pin length, 0.50 mm pin pitch, 0.20±0.05 mm pin length, 0.05 mm pin pitch, 0.05 mm pin pitch.

TRAY: 4,900pcs
T&R: 1,000pcs



P-WQFN16-0404-0.50-63

Top view: 16-pin package, 4.00±0.10 x 4.00±0.10 mm, 1PIN INDEX (Marking), 0.80MAX, 0.20, 0.50±0.10, 0.05, SEATING PLANE.

Side view: 0.20, 0.50±0.10.

Bottom view: 16 pins, 1.25, 0.50, 0.20±0.05, 0.40±0.10, 1PIN INDEX, 0.05(φ), 2.60TYP, 0.60TYP.

TRAY: 4,900pcs
T&R: 1,000pcs

P-WQFN24-0404-0.50-A63

Top view: 24-pin package, 4.00±0.10 x 4.00±0.10 mm, 1PIN INDEX (Marking), 0.80MAX, 0.20, 0.05, SEATING PLANE.

Side view: 0.20.

Bottom view: 24 pins, 0.75, 0.50, 0.25^{+0.05/-0.07}, 0.40±0.05, 1PIN INDEX, 0.05(φ), 2.60TYP, 0.60TYP.

TRAY: 4,900pcs
T&R: 1,000pcs

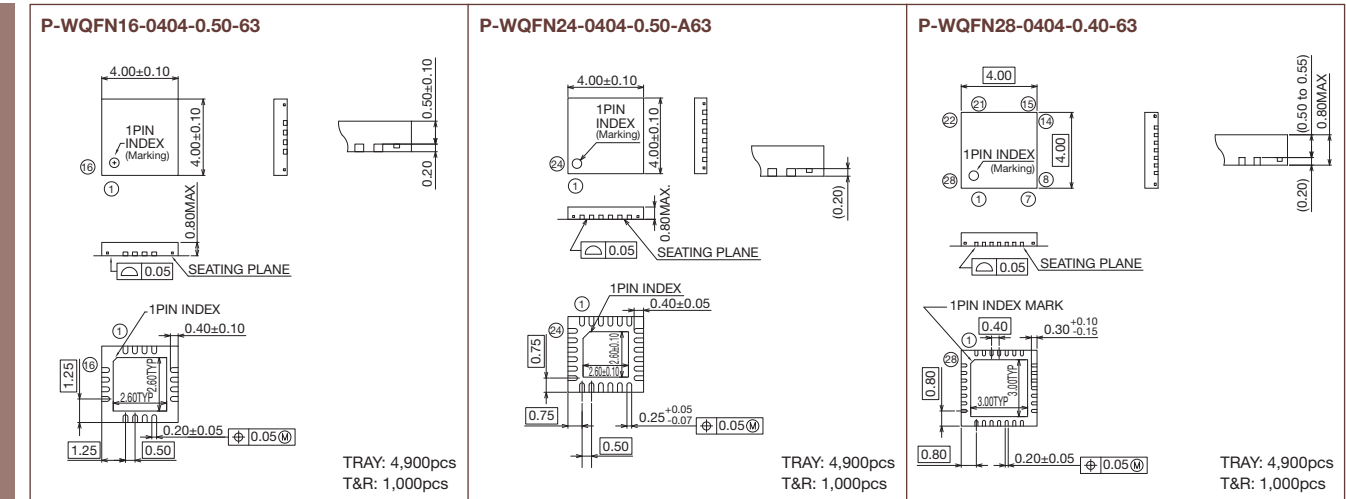
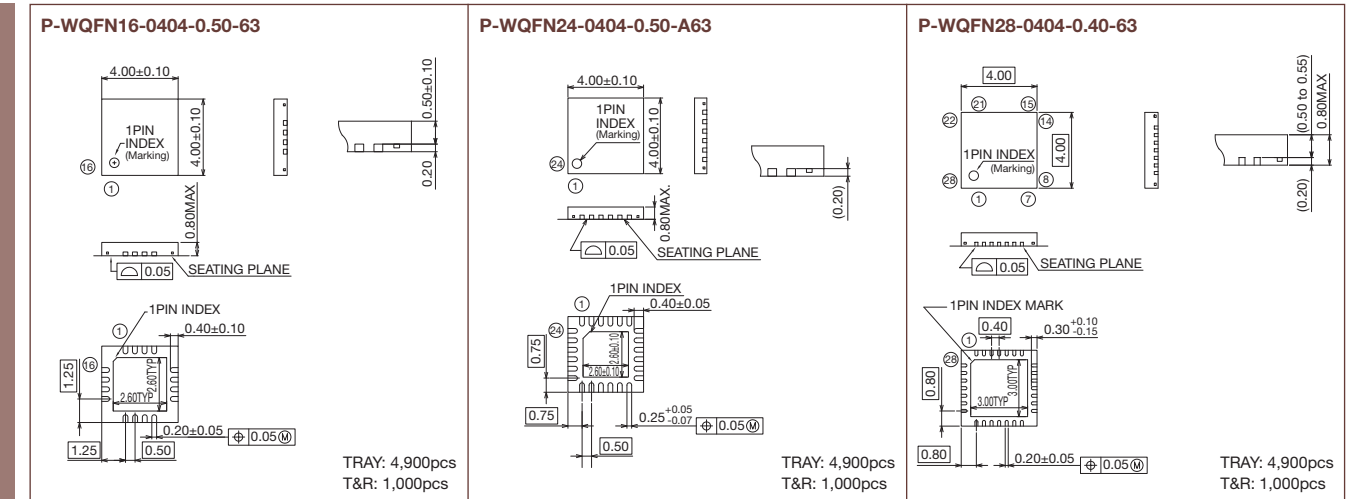
P-WQFN28-0404-0.40-63

Top view: 28-pin package, 4.00 x 4.00 mm, 1PIN INDEX (Marking), 0.80MAX, 0.20, 0.05, SEATING PLANE.

Side view: 0.20, 0.50 to 0.55, 0.80MAX.

Bottom view: 28 pins, 0.80, 0.50, 0.20±0.05, 0.40, 0.30^{+0.10/-0.15}, 1PIN INDEX MARK, 0.05(φ), 3.00TYP, 3.00TYP.

TRAY: 4,900pcs
T&R: 1,000pcs



P-WQFN16-0404-0.50-63

Top view: 16-pin package, 4.00±0.10 x 4.00±0.10 mm, 1PIN INDEX (Marking), 0.80MAX, 0.20, 0.50±0.10, 0.05, SEATING PLANE.

Side view: 0.20, 0.50±0.10.

Bottom view: 16 pins, 1.25, 0.50, 0.20±0.05, 0.40±0.10, 1PIN INDEX, 0.05(φ), TRAY: 4,900pcs, T&R: 1,000pcs.

P-WQFN24-0404-0.50-A63

Top view: 24-pin package, 4.00±0.10 x 4.00±0.10 mm, 1PIN INDEX (Marking), 0.80MAX, 0.20, 0.05, SEATING PLANE.

Side view: 0.20.

Bottom view: 24 pins, 0.75, 0.50, 0.25^{+0.05/-0.07}, 0.40±0.05, 1PIN INDEX, 0.05(φ), TRAY: 4,900pcs, T&R: 1,000pcs.

P-WQFN28-0404-0.40-63

Top view: 28-pin package, 4.00 x 4.00 mm, 1PIN INDEX (Marking), 0.80MAX, 0.20, 0.05, SEATING PLANE.

Side view: 0.20, 0.50 to 0.55, 0.80MAX.

Bottom view: 28 pins, 0.80, 0.50, 0.30^{+0.10/-0.15}, 0.40, 1PIN INDEX MARK, 0.05(φ), TRAY: 4,900pcs, T&R: 1,000pcs.

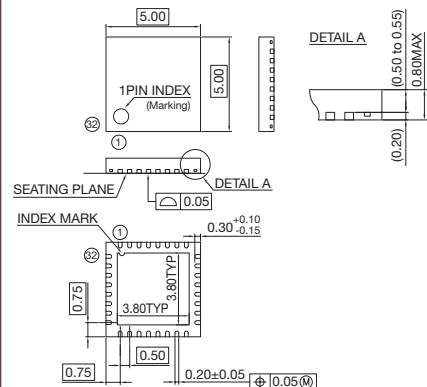
刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFN封装

(单位: mm)

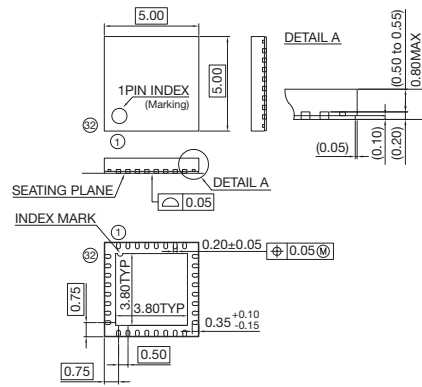
WQFN

P-WQFN32-0505-0.50-A63



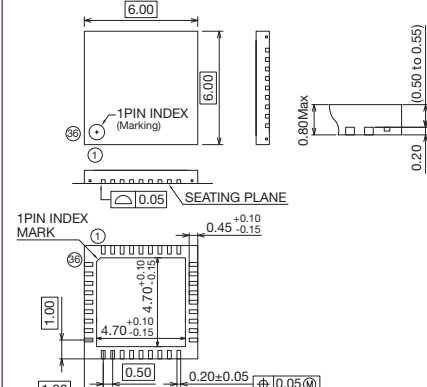
TRAY: 4,030pcs
T&R: 1,000pcs

P-WQFN32-0505-0.50-W66



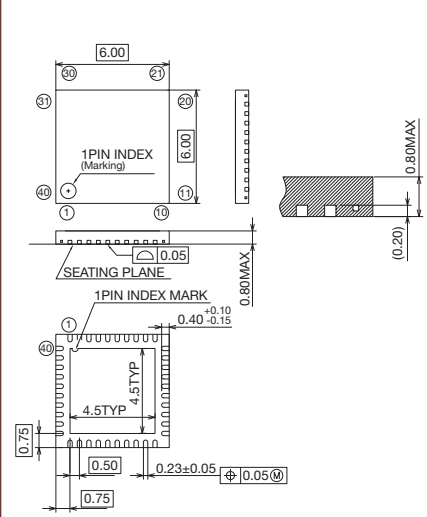
TRAY: 4,030pcs
T&R: 1,000pcs

WQFN36-0606-0.50-A63



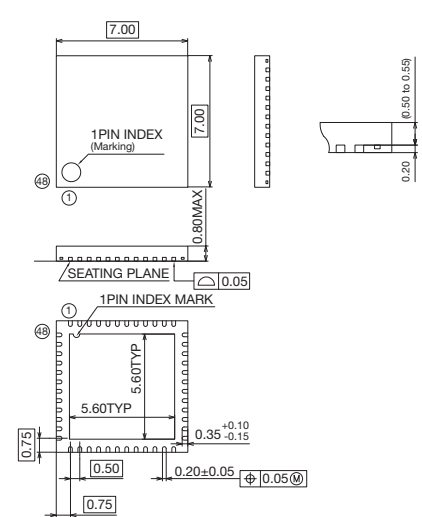
TRAY: 4,900pcs
T&R: 2,000pcs

P-WQFN40-0606-0.50-63



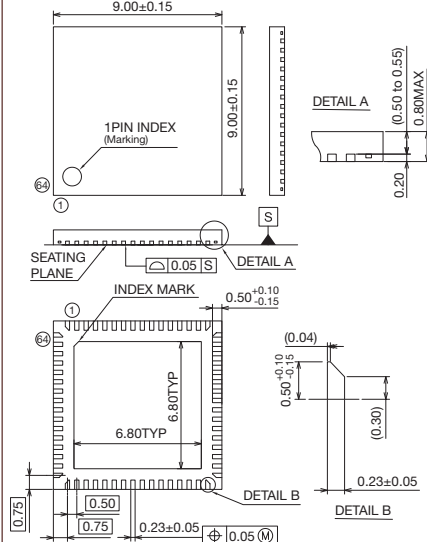
TRAY: 4,900pcs
T&R: 2,500pcs

P-WQFN48-0707-0.50-63



TRAY: 2,500pcs
T&R: 2,000pcs

P-WQFN64-0909-0.50-63



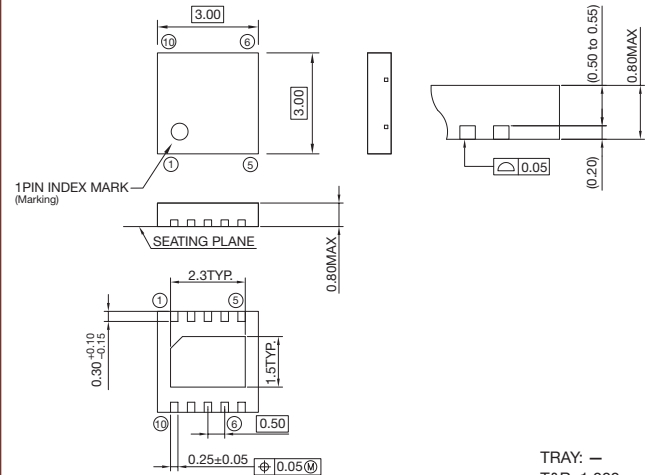
TRAY: 2,600pcs
T&R: 3,000pcs

WSN封装

(单位: mm)

WSN

P-WSN10-0303-0.50-63



TRAY: —
T&R: 1,000pcs

(单位: mm)

[illegible]

(单位: mm)

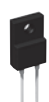
SiC肖特基势垒二极管

SiC肖特基势垒二极管

P.130

SiC肖特基势垒二极管

●SiC肖特基势垒二极管一览表

V_{RM} (V)	I_F (A)	Leaded type								Surface Mounted type	
											
		TO-220AC (TO-220ACP)		TO-220ACG		TO-220FM		TO-247 (TO-247N)		TO-263AB (LPTL)	
650	2	SCS302AH	21							SCS302AJ	13
	4	SCS304AH	22			SCS304AM	29			SCS304AJ	14
	6	SCS306AH	23	<i>New</i> SCS206AG	42	SCS306AM	30			SCS206AJ SCS206AJHR SCS306AJ	1 7 15
	8	SCS308AH	24	<i>New</i> SCS208AG	43	SCS308AM	31			SCS208AJ SCS208AJHR SCS308AJ	2 8 16
	10	SCS310AH	25	<i>New</i> SCS210AG	44	SCS310AM	32			SCS210AJ SCS210AJHR SCS310AJ	3 9 17
	12	SCS312AH	26	<i>New</i> SCS212AG	45	SCS312AM	33			SCS212AJ SCS212AJHR SCS312AJ	4 10 18
	15	SCS315AH	27	<i>New</i> SCS215AG	46	SCS315AM	34			SCS215AJ SCS215AJHR SCS315AJ	5 11 19
	20	SCS320AH	28	<i>New</i> SCS220AG	47	SCS320AM	35	SCS220AE2 SCS220AE2HR	36 39	SCS220AJ SCS220AJHR SCS320AJ	6 12 20
	30							SCS230AE2 SCS230AE2HR	37 40		
	40							SCS240AE2 SCS240AE2HR	38 41		
1,200	5			<i>New</i> SCS205KG	56						
	10			<i>New</i> SCS210KG	57			SCS210KE2 SCS210KE2HR	48 52		
	15			<i>New</i> SCS215KG	58						
	20			<i>New</i> SCS220KG	59			SCS220KE2 SCS220KE2HR	49 53		
	30							SCS230KE2 SCS230KE2HR	50 54		
	40							SCS240KE2 SCS240KE2HR	51 55		

注：封装采用JEDEC表示。()内表示ROHM封装。

SiC肖特基势垒二极管

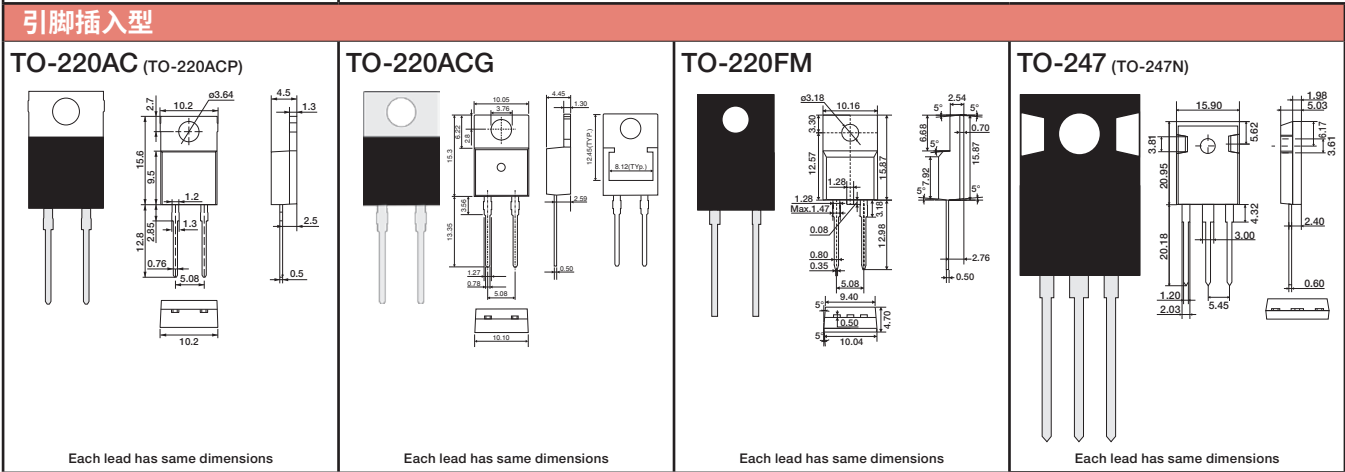
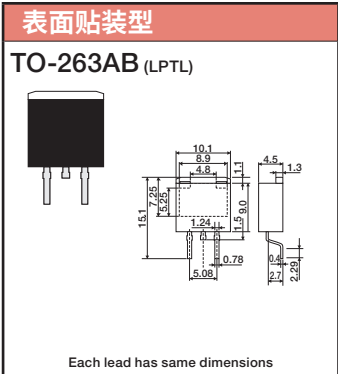
SiC肖特基势垒二极管												
No.	Part No.	Absolute Maximum Ratings (T _J =25°C)				Electrical Characteristics (T _J =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
		V _{RM} (V)	V _R (V)	I _F (A)	I _{FSM} (A) 10ms	V _F (V) Typ	I _F (A)	I _R (μA) Max	V _R (V)			
1	SCS206AJ	650	650	6	23	1.35	6	120	600	TO-263AB (LPTL)		—
2	SCS208AJ	650	650	8	30	1.35	8	160	600			—
3	SCS210AJ	650	650	10	38	1.35	10	200	600			—
4	SCS212AJ	650	650	12	43	1.35	12	240	600			—
5	SCS215AJ	650	650	15	52	1.35	15	300	600			—
6	SCS220AJ	650	650	20	68	1.35	20	400	600			—
7	SCS206AJHR	650	650	6	23	1.35	6	120	600			YES
8	SCS208AJHR	650	650	8	30	1.35	8	160	600			YES
9	SCS210AJHR	650	650	10	38	1.35	10	200	600			YES
10	SCS212AJHR	650	650	12	43	1.35	12	240	600			YES
11	SCS215AJHR	650	650	15	52	1.35	15	300	600			YES
12	SCS220AJHR	650	650	20	68	1.35	20	400	600			YES
13	SCS302AJ	650	650	2.15	19	1.35	2.15	10.8	650			—
14	SCS304AJ	650	650	4	27	1.35	4	20	650			—
15	SCS306AJ	650	650	6	47	1.35	6	30	650			—
16	SCS308AJ	650	650	8	67	1.35	8	40	650			—
17	SCS310AJ	650	650	10	82	1.35	10	50	650			—
18	SCS312AJ	650	650	12	96	1.35	12	60	650			—
19	SCS315AJ	650	650	15	112	1.35	15	75	650			—
20	SCS320AJ	650	650	20	123	1.35	20	100	650			—
21	SCS302AH	650	650	2.15	19	1.35	2	10.8	650	TO-220AC (TO-220ACP)		—
22	SCS304AH	650	650	4	27	1.35	4	20	650			—
23	SCS306AH	650	650	6	47	1.35	6	30	650			—
24	SCS308AH	650	650	8	67	1.35	8	40	650			—
25	SCS310AH	650	650	10	82	1.35	10	50	650			—
26	SCS312AH	650	650	12	96	1.35	12	60	650			—
27	SCS315AH	650	650	15	112	1.35	15	75	650			—
28	SCS320AH	650	650	20	123	1.35	20	100	650			—
29	SCS304AM	650	650	4	27	1.35	4	20	650	TO-220FM		—
30	SCS306AM	650	650	6	47	1.35	6	30	650			—
31	SCS308AM	650	650	8	67	1.35	8	40	650			—
32	SCS310AM	650	650	10	82	1.35	10	50	650			—
33	SCS312AM	650	650	12	96	1.35	12	60	650			—
34	SCS315AM	650	650	15	112	1.35	15	75	650			—
35	SCS320AM	650	650	20	123	1.35	20	100	650			—
36	SCS220AE2	650	650	10/20*1	38/76*1	1.35	10	200	600	TO-247 (TO-247N)		—
37	SCS230AE2	650	650	15/30*1	52/104*1	1.35	15	300	600			—
38	SCS240AE2	650	650	20/40*1	67/130*1	1.35	20	400	600			—
39	SCS220AE2HR	650	650	10/20*1	38/76*1	1.35	10	200	600			YES
40	SCS230AE2HR	650	650	15/30*1	52/100*1	1.35	15	300	600			YES
41	SCS240AE2HR	650	650	20/40*1	67/130*1	1.35	20	400	600	TO-220ACG		YES
42	New SCS206AG	650	650	6	23	1.35	6	120	600			—
43	New SCS208AG	650	650	8	30	1.35	8	160	600			—
44	New SCS210AG	650	650	10	38	1.35	10	200	600			—
45	New SCS212AG	650	650	12	43	1.35	12	240	600			—
46	New SCS215AG	650	650	15	52	1.35	15	300	600			—
47	New SCS220AG	650	650	20	68	1.35	20	400	600	TO-247 (TO-247N)		—
48	SCS210KE2	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200			—
49	SCS220KE2	1,200	1,200	10/20*1	42/84*1	1.4	10	200	1,200			—
50	SCS230KE2	1,200	1,200	15/30*1	62/120*1	1.4	15	300	1,200			—
51	SCS240KE2	1,200	1,200	20/40*1	78/150*1	1.4	20	400	1,200			—
52	SCS210KE2HR	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200			YES
53	SCS220KE2HR	1,200	1,200	10/20*1	42/84*1	1.4	10	200	1,200			YES
54	SCS230KE2HR	1,200	1,200	15/30*1	62/120*1	1.4	15	300	1,200			YES
55	SCS240KE2HR	1,200	1,200	20/40*1	78/150*1	1.4	20	400	1,200			YES
56	New SCS205KG	1,200	1,200	5	23	1.4	5	100	1,200	TO-220ACG		—
57	New SCS210KG	1,200	1,200	10	42	1.4	10	200	1,200			—
58	New SCS215KG	1,200	1,200	15	62	1.4	15	300	1,200			—
59	New SCS220KG	1,200	1,200	20	79	1.4	20	400	1,200			—

注：封装采用JEDEC表示。()内表示ROHM封装。

*1 (引脚/封装)

SiC肖特基势垒二极管

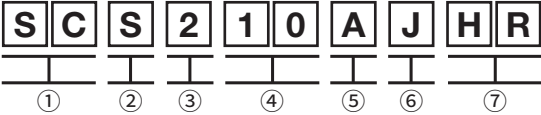
●尺寸 (单位：mm)



注：封装采用JEDEC表示。()内表示ROHM封装。

●品名构成说明

●关于SiC肖特基势垒二极管的品名(基本型号)



- ① SiC分立元器件
② 肖特基势垒二极管
③ 世代
④ 电流(A)
例 05 → 5A
10 → 10A

- ⑤ 电压
例 A → 650V
K → 1,200V
- ⑥ 封装
例 J → TO-263AB (LPTL)
H → TO-220AC (TO-220ACP)
E → TO-247 (TO-247N)
E2 → TO-247 (Dual Chip)
G → TO-220ACG
- ⑦ 表示支持车载

●封装类型

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-263AB (LPTL)	TLL	Embossed Tape	1,000
TO-220AC (TO-220ACP)	C9	Tube	50
TO-220ACG	C17	Tube	50
TO-220FM	C	Tube	50
TO-247 (TO-247N)	C11	Tube	30

注：封装采用JEDEC表示。()内表示ROHM封装。

SiC MOSFET

SiC MOSFET

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SiC MOSFET

● SiC MOSFET一览表

V _{DSS} (V)	R _{DS(on)} (mΩ)	Leaded type								Surface Mounted type	
											
		TO-247 (TO-247N)	TO-247-4L <C14>	TO-247-4L <C15>	TO-3PFM	TO-263-7L					
650	17	SCT3017AL SCT3017ALHR	10 11								
	22	SCT3022AL SCT3022ALHR	12 13								
	30	SCT3030AL SCT3030ALHR	14 15	SCT3030AR	32				SCT3030AW7	38	
	60	SCT3060AL SCT3060ALHR	16 17	SCT3060AR	33				SCT3060AW7	39	
	80	SCT3080AL SCT3080ALHR	18 19	SCT3080AR	34				SCT3080AW7	40	
	120	SCT3120AL	20						SCT3120AW7	41	
750	13	☆SCT4013DE	46			☆SCT4013DR	52		☆SCT4013DW7	58	
	26	☆SCT4026DE ☆SCT4026DEHR	47 64			☆SCT4026DR ☆SCT4026DRHR	53 68		☆SCT4026DW7 ☆SCT4026DW7HR	59 72	
	45	☆SCT4045DE ☆SCT4045DEHR	48 65			☆SCT4045DR ☆SCT4045DRHR	54 69		☆SCT4045DW7 ☆SCT4045DW7HR	60 73	
1,200	18	☆SCT4018KE	49			☆SCT4018KR	55		☆SCT4018KW7	61	
	22	SCT3022KL SCT3022KLHR	21 22								
	30	SCT3030KL SCT3030KLHR	23 24								
	36	☆SCT4036KE ☆SCT4036KEHR	50 66			☆SCT4036KR ☆SCT4036KRHR	56 70		☆SCT4036KW7 ☆SCT4036KW7HR	62 74	
	40	SCT3040KL SCT3040KLHR	25 26	SCT3040KR	35				SCT3040KW7	42	
	62	☆SCT4062KE ☆SCT4062KEHR	51 67			☆SCT4062KR ☆SCT4062KRHR	57 71		☆SCT4062KW7 ☆SCT4062KW7HR	63 75	
	80	SCT2080KE SCT2080KEHR SCT3080KL SCT3080KLHR	1 2 27 28	SCT3080KR	36				SCT3080KW7	43	
	105	SCT3105KL SCT3105KLHR	29 30	SCT3105KR	37				SCT3105KW7	44	
	160	SCT2160KE SCT2160KEHR SCT3160KL	3 4 31						SCT3160KW7	45	
	280	SCT2280KE SCT2280KEHR	5 6								
450	SCT2450KE SCT2450KEHR	7 8									
1,700	1,150							SCT2H12NZ	9		
	750										

注：封装按照JEDEC标准进行标识。()内表示ROHM封装，< >表示包装代码。

☆：开发中

SiC MOSFET

第2代(平面型)										
No.	Part No.	Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _C =25°C)	R _{DS(on)} Typ (mΩ)	Q _g Typ (nC)		Package	Automotive Grade AEC-Q101
						V _{GS} =18V	V _{GS} =18V	Drive Voltage (V)		
1	SCT2080KE	N	1,200	40	262	80	106	18	TO-247 (TO-247N)	—
2	SCT2080KEHR	N	1,200	40	262	80	106	18		YES
3	SCT2160KE	N	1,200	22	165	160	62	18		—
4	SCT2160KEHR	N	1,200	22	165	160	62	18		YES
5	SCT2280KE	N	1,200	14	108	280	36	18		—
6	SCT2280KEHR	N	1,200	14	108	280	36	18		YES
7	SCT2450KE	N	1,200	10	85	450	27	18		—
8	SCT2450KEHR	N	1,200	10	85	450	27	18		YES
9	SCT2H12NZ	N	1,700	3.7	35	1,150	14	18	TO-3PFM	—
第3代(沟槽型)										
10	SCT3017AL	N	650	118	427	17	172	18	TO-247 (TO-247N)	—
11	SCT3017ALHR	N	650	118	427	17	172	18		YES
12	SCT3022AL	N	650	93	339	22	133	18		—
13	SCT3022ALHR	N	650	93	339	22	133	18		YES
14	SCT3030AL	N	650	70	262	30	104	18		—
15	SCT3030ALHR	N	650	70	262	30	104	18		YES
16	SCT3060AL	N	650	39	165	60	58	18		—
17	SCT3060ALHR	N	650	39	165	60	58	18		YES
18	SCT3080AL	N	650	30	134	80	48	18		—
19	SCT3080ALHR	N	650	30	134	80	48	18		YES
20	SCT3120AL	N	650	21	103	120	38	18		—
21	SCT3022KL	N	1,200	95	427	22	178	18		—
22	SCT3022KLHR	N	1,200	95	427	22	178	18		YES
23	SCT3030KL	N	1,200	72	339	30	131	18		—
24	SCT3030KLHR	N	1,200	72	339	30	131	18		YES
25	SCT3040KL	N	1,200	55	262	40	107	18		—
26	SCT3040KLHR	N	1,200	55	262	40	107	18		YES
27	SCT3080KL	N	1,200	31	165	80	60	18		—
28	SCT3080KLHR	N	1,200	31	165	80	60	18		YES
29	SCT3105KL	N	1,200	24	134	105	51	18		—
30	SCT3105KLHR	N	1,200	24	134	105	51	18		YES
31	SCT3160KL	N	1,200	17	103	160	42	18		—
32	SCT3030AR	N	650	70	262	30	104	18	TO-247-4L <C14>	—
33	SCT3060AR	N	650	39	165	60	58	18		—
34	SCT3080AR	N	650	30	134	80	48	18		—
35	SCT3040KR	N	1,200	55	262	40	107	18		—
36	SCT3080KR	N	1,200	31	165	80	60	18		—
37	SCT3105KR	N	1,200	24	134	105	51	18		—
38	SCT3030AW7	N	650	70	267	30	104	18	TO-263-7L	—
39	SCT3060AW7	N	650	38	159	60	58	18		—
40	SCT3080AW7	N	650	29	125	80	48	18		—
41	SCT3120AW7	N	650	21	100	120	38	18		—
42	SCT3040KW7	N	1,200	56	267	40	107	18		—
43	SCT3080KW7	N	1,200	30	159	80	60	18		—
44	SCT3105KW7	N	1,200	23	125	105	51	18		—
45	SCT3160KW7	N	1,200	17	100	160	42	18		—

注：封装按照JEDEC标准进行标识。()内表示ROHM封装，< >表示包装代码。

第4代(沟槽型)										
No.	Part No.	Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _C =25°C)	R _{DS (on)} Typ (mΩ)	Qg Typ (nC)		Package	Automotive Grade AEC-Q101
						V _{GS} =18V	V _{GS} =18V	Drive Voltage (V)		
46	☆SCT4013DE	N	750	105	312	13	170	15 to 18	TO-247 (TO-247N)	—
47	☆SCT4026DE	N	750	56	176	26	94	15 to 18		—
48	☆SCT4045DE	N	750	34	115	45	63	15 to 18		—
49	☆SCT4018KE	N	1,200	81	312	18	170	15 to 18		—
50	☆SCT4036KE	N	1,200	43	176	36	91	15 to 18		—
51	☆SCT4062KE	N	1,200	26	115	62	64	15 to 18		—
52	☆SCT4013DR	N	750	105	312	13	170	15 to 18	TO-247-4L <C15>	—
53	☆SCT4026DR	N	750	56	176	26	94	15 to 18		—
54	☆SCT4045DR	N	750	34	115	45	63	15 to 18		—
55	☆SCT4018KR	N	1,200	81	312	18	170	15 to 18		—
56	☆SCT4036KR	N	1,200	43	176	36	91	15 to 18		—
57	☆SCT4062KR	N	1,200	26	115	62	64	15 to 18		—
58	☆SCT4013DW7	N	750	98	267	13	170	15 to 18	TO-263-7L	—
59	☆SCT4026DW7	N	750	51	150	26	94	15 to 18		—
60	☆SCT4045DW7	N	750	31	93	45	63	15 to 18		—
61	☆SCT4018KW7	N	1,200	75	267	18	170	15 to 18		—
62	☆SCT4036KW7	N	1,200	40	150	36	91	15 to 18		—
63	☆SCT4062KW7	N	1,200	24	93	62	64	15 to 18		—
64	☆SCT4026DEHR	N	750	56	176	26	94	15 to 18	TO-247 (TO-247N)	YES
65	☆SCT4045DEHR	N	750	34	115	45	63	15 to 18		YES
66	☆SCT4036KEHR	N	1,200	43	176	36	91	15 to 18		YES
67	☆SCT4062KEHR	N	1,200	26	115	62	64	15 to 18		YES
68	☆SCT4026DRHR	N	750	56	176	26	94	15 to 18	TO-247-4L <C15>	YES
69	☆SCT4045DRHR	N	750	34	115	45	63	15 to 18		YES
70	☆SCT4036KRHR	N	1,200	43	176	36	91	15 to 18		YES
71	☆SCT4062KRHR	N	1,200	26	115	62	64	15 to 18		YES
72	☆SCT4026DW7HR	N	750	51	150	26	94	15 to 18	TO-263-7L	YES
73	☆SCT4045DW7HR	N	750	31	93	45	63	15 to 18		YES
74	☆SCT4036KW7HR	N	1,200	40	150	36	91	15 to 18		YES
75	☆SCT4062KW7HR	N	1,200	24	93	62	64	15 to 18		YES

注：封装按照JEDEC标准进行标识。()内表示ROHM封装，< >表示包装代码。

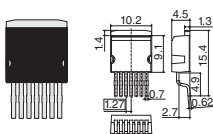
☆：开发中

SiC MOSFET

●尺寸 (单位: mm)

表面贴装型

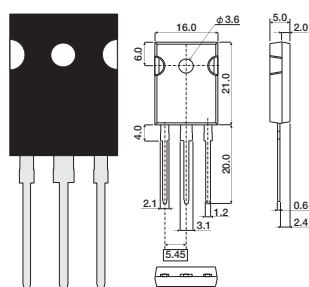
TO-263-7L



Each lead has same dimensions

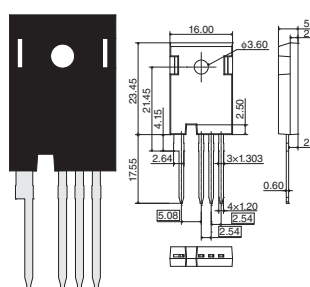
引脚插入型

TO-247 (TO-247N)



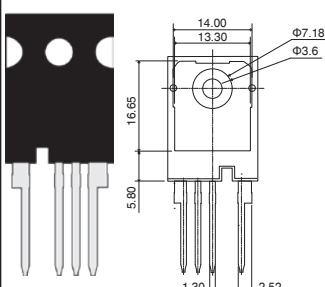
Each lead has same dimensions

TO-247-4L (C14)



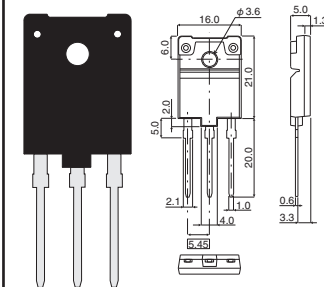
Each lead has same dimensions

TO-247-4L (C15)



Each lead has same dimensions

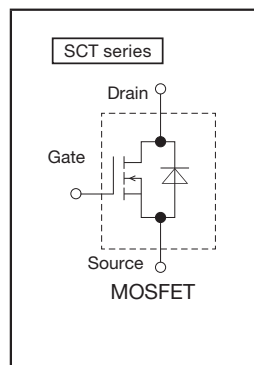
TO-3PFM



Each lead has same dimensions

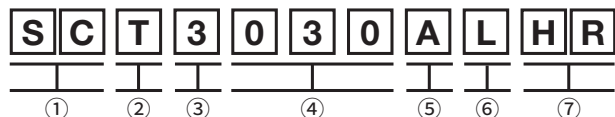
注: 封装采用JEDEC表示。()内表示ROHM封装。

●内部电路图



●品名构成说明

●关于MOSFET的品名(基本型号)



- | | | |
|---------------------|----------|-------------------------|
| ① SiC分立元器件 | ⑤ 电压 | A → 650V |
| ② T → MOSFET | | D → 750V |
| ③ 世代 | | K → 1,200V |
| ④ ON-resistance[mΩ] | | N → 1,700V |
| 080=80mΩ | ⑥ 封装 | E, L → TO-247 (TO-247N) |
| H12=1.2 Ω | | Z → TO-3PFM |
| | | R → TO-247-4L |
| | | W7 → TO-263-7L |
| | ⑦ 表示支持车载 | |

●封装类型

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-263-7L	TL	Embossed Tape	1,000
TO-268-2L	TB	Embossed Tape	400
TO-247 (TO-247N)	C11	Tube	30
TO-247-4L	C14	Tube	30
TO-247-4L	C15	Tube	30
TO-3PFM	C11	Tube	30

注: 封装采用JEDEC表示。()内表示ROHM封装。

“全SiC” 功率模块

“全SiC” 功率模块

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“全SiC” 功率模块

● “全SiC” 功率模块一览表

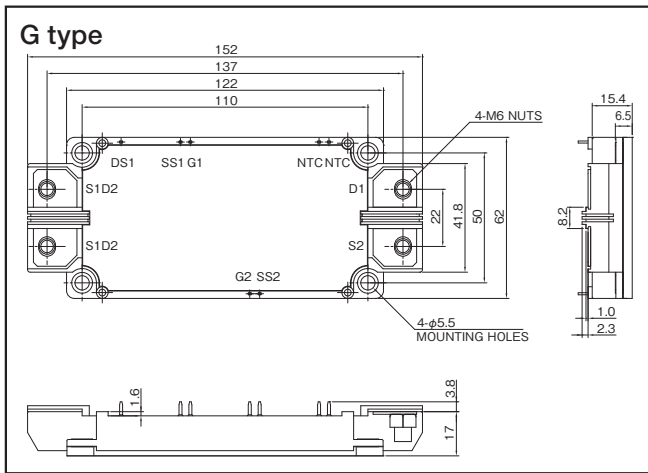
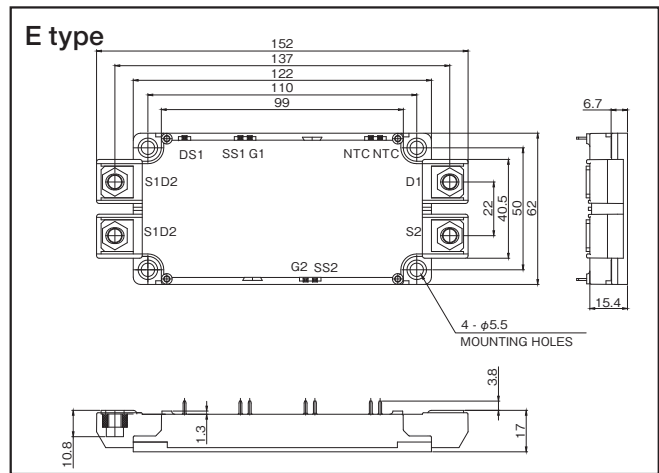
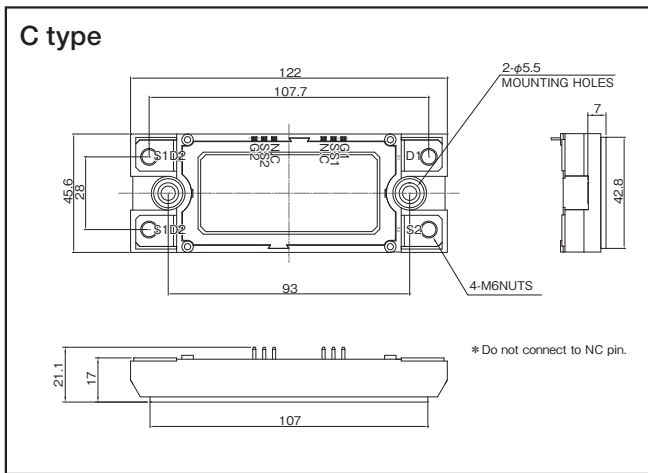
V _{DS} (V)	R _{DS(on)} (mΩ)	Case type		
				
		C type	E type	G type
1,200	34	BSM080D12P2C008		
	20	BSM120D12P2C005 BSM120C12P2C201		
	12.8	BSM180D12P2C101		
	12.2		BSM180C12P2E202 BSM180D12P2E002	
	10	BSM180D12P3C007 BSM180C12P3C202		
	7.3		BSM300D12P2E001	
	6.3		BSM300C12P3E201 BSM300C12P3E301	
	5.75			BSM400D12P2G003
	5.55		BSM300D12P3E005	
	4.5			BSM400D12P3G002 BSM400C12P3G202
	3			BSM600D12P3G001 BSM600C12P3G201
1,700	8		BSM250D17P2E004	

“全SiC” 功率模块

Part No.	Absolute Maximum Ratings (T _J =25°C)						Internal Circuit
	V _{DSS} (V)	I _D (A)	T _J (°C)	T _{stg} (°C)	Visol (V) AC 1min	Package	
升降压斩波型							
BSM120C12P2C201	1,200	120	-40 to +175	-40 to +125	2,500	C type	
BSM180C12P3C202	1,200	180	-40 to +175	-40 to +125	2,500		
BSM180C12P2E202	1,200	180	-40 to +175	-40 to +125	2,500	E type	
BSM300C12P3E201	1,200	300	-40 to +175	-40 to +125	2,500		
BSM400C12P3G202	1,200	400	-40 to +175	-40 to +125	2,500	G type	
BSM600C12P3G201	1,200	600	-40 to +175	-40 to +125	2,500		
BSM300C12P3E301	1,200	300	-40 to +175	-40 to +125	2,500	E type	
半桥型							
BSM180D12P2C101	1,200	180	-40 to +175	-40 to +125	2,500	C type	
BSM080D12P2C008	1,200	80	-40 to +175	-40 to +125	2,500		
BSM120D12P2C005	1,200	120	-40 to +175	-40 to +125	2,500		
BSM180D12P3C007	1,200	180	-40 to +175	-40 to +125	2,500		
BSM180D12P2E002	1,200	180	-40 to +175	-40 to +125	2,500	E type	
BSM300D12P2E001	1,200	300	-40 to +175	-40 to +125	2,500		
BSM300D12P3E005	1,200	300	-40 to +175	-40 to +125	2,500		
BSM400D12P2G003	1,200	400	-40 to +175	-40 to +125	2,500		
BSM400D12P3G002	1,200	400	-40 to +175	-40 to +125	2,500	G type	
BSM600D12P3G001	1,200	600	-40 to +175	-40 to +125	2,500		
BSM250D17P2E004	1,700	250	-40 to +175	-40 to +125	3,400	E type	

“全SiC”功率模块

●尺寸 (单位: mm)



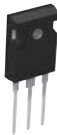
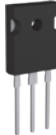
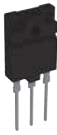
●品名构成说明

B	S	M	1	2	0	D	1	2	P	2	C	0	0	5
①	②	③	④	⑤	⑥	⑦								

- ① SiC功率模块
- ② 额定电流
- ③ C → 含1个电路
D → 含2个电路
- ④ 耐压
例 12 → 1,200V
- ⑤ 器件类型
P2 使用第二代SiC MOSFET
P3 使用第三代SiC MOSFET
- ⑥ 规格类型
- ⑦ 追加型号

Field Stop Trench IGBT

●Field Stop Trench IGBT一览表 标准产品

Series	V _{CES} (V)	I _C (A)	Package									
												
			TO-247N		TO-247GE		TO-3PFM					
			IGBT Single	Built-in Diode*	IGBT Single	Built-in FRD	IGBT Single	Built-in FRD	IGBT Single	Built-in FRD	IGBT Single	Built-in FRD
RGTH series (High speed switching)	650	20			RGTH40TS65	1	RGTH40TS65D	6	RGTH40TK65	11	RGTH40TK65D	16
		25			RGTH50TS65	2	RGTH50TS65D	7	RGTH50TK65	12	RGTH50TK65D	17
		30			RGTH60TS65	3	RGTH60TS65D	8	RGTH60TK65	13	RGTH60TK65D	18
		40			RGTH80TS65	4	RGTH80TS65D	9	RGTH80TK65	14	RGTH80TK65D	19
		50			RGTH00TS65	5	RGTH00TS65D	10	RGTH00TK65	15	RGTH00TK65D	20
RGW series (High speed fast switching)	650	20	RGW40TS65	21	RGW40TS65D	31			RGW40TK65	48	RGW40TK65D	53
		25	RGW50TS65	22	RGW50TS65D	32			RGW50TK65	49	RGW50TK65D	54
		30	RGW60TS65	23	RGW60TS65D	33			RGW60TK65	50	RGW60TK65D	55
			New RGW60TS65HR	24	New RGW60TS65DHR	34						
					New RGW60TS65EHR	35						
		39			New RGW60TS65CHR	45						
		40	RGW80TS65	25	RGW80TS65D	36			RGW80TK65	51	RGW80TK65D	56
			New RGW80TS65HR	26	New RGW80TS65DHR	37						
					New RGW80TS65EHR	38						
		48			New RGW80TS65CHR	46						
		50	RGW00TS65	27	RGW00TS65D	39			RGW00TK65	52	RGW00TK65D	58
			New RGW00TS65HR	28	New RGW00TS65DHR	40						
					New RGW00TS65EHR	41						
		58			New RGW00TS65CHR	47						
		75	RGWX5TS65	29	RGWX5TS65D	42						
			New RGWX5TS65HR	30	New RGWX5TS65DHR	43						
					New RGWX5TS65EHR	44						
RGCL series (Low V _{CE(sat)})	600	30	RGCL60TS60	59	RGCL60TS60D	61			RGCL60TK60	63	RGCL60TK60D	65
		40	RGCL80TS60	60	RGCL80TS60D	62			RGCL80TK60	64	RGCL80TK60D	66
RGC series (RC-IGBT)	1,800	40			RGC80TSX8R	67						

注1：封装采用JEDEC表示。
注2：*RGW60TS65CHR、RGW80TS65CHR、RGW00TS65CHR内置SiC肖特基势垒二极管，其他型号内置快速恢复二极管。

短路耐量保证产品

Series	V _{CES} (V)	I _C (A)	Package														
																	
			TO-252	TO-263S (LPDS)/ TO-262	TO-263L (LPDL)		TO-220NFM	TO-247N		TO-3PFM							
			Built-in FRD	Built-in FRD	IGBT Single	Built-in FRD	Built-in FRD	IGBT Single	Built-in FRD	IGBT Single	Built-in FRD	IGBT Single	Built-in FRD	IGBT Single	Built-in FRD		
RGTV series (tsc 2μsec Min)	650	30								RGTV60TS65	68	RGTV60TS65D	73	RGTV60TK65	78	RGTV60TK65D	81
		40								RGTV80TS65	69	RGTV80TS65D	74	RGTV80TK65	79	RGTV80TK65D	82
		50								RGTV00TS65	70	RGTV00TS65D	75	RGTV00TK65	80	RGTV00TK65D	83
		60								RGTVX2TS65	71	RGTVX2TS65D	76				
		80								RGTVX6TS65	72	RGTVX6TS65D	77				
RGT series (tsc 5μsec Min)	650	4	RGTV8BM65D	84	RGTV8NS65D	86		RGTV8NL65D	93	RGTV8TM65D	99						
		8	RGTV16BM65D	85	RGTV16NS65D	87		RGTV16NL65D	94	RGTV16TM65D	100						
		10			RGTV20NS65D	88	RGTV20NL65	92	RGTV20NL65D	95	RGTV20TM65D	101					
		15			RGTV30NS65D	89			RGTV30NL65D	96	RGTV30TM65D	102					
		20			RGTV40NS65D	90			RGTV40NL65D	97	RGTV40TM65D	103		RGTV40TS65D	105		
		25			RGTV50NS65D	91			RGTV50NL65D	98	RGTV50TM65D	104		RGTV50TS65D	106		
		30											RGTV60TS65D	107			
		40											RGTV80TS65D	108			
		50											RGTV00TS65D	109			
RGS series (tsc 8μsec Min)	650	30								RGSO0TS65HR	110	RGSO0TS65DHR	120				
		40								RGSO0TS65HR	111	RGSO0TS65DHR	121				
												RGSO0TS65DHR	122				
		50								RGSO0TS65HR	112	New RGSO0TS65DHR	123				
												RGSO0TS65EHR	124				
RGS series (tsc 10μsec Min)	1,200									New RGSO0TS65HR	113	New RGSO0TS65E	125				
											New RGSO0TS65EHR	126					
		15								RGSO30TSX2HR	114	RGSO30TSX2DHR	127				
										RGSO30TSX2	115	RGSO30TSX2D	128				
		25								RGSO50TSX2HR	116	RGSO50TSX2DHR	129				
										RGSO50TSX2	117	RGSO50TSX2D	130				
										RGSO80TSX2HR	118	RGSO80TSX2DHR	131				
		40								RGSO80TSX2	119	RGSO80TSX2D	132				

注：封装采用JEDEC表示。()内表示ROHM封装。

Field Stop Trench IGBT

标准产品

Field Stop Trench IGBT

No.	Part No.	V _{CES} (V)	I _C (A)		P _D (W)	V _{CE (sat)} Typ (V)	I _C (A)	tsc Min (μsec)	I _F (Diode) (A)		V _F (Diode) Typ (V)	I _F (A)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C					Tc=25°C	Tc=100°C					
1	RGTH40TS65	650	40	20	144	1.6	20	—	—	—	—	—	TO-247GE		—
2	RGTH50TS65	650	50	25	174	1.6	25	—	—	—	—	—			—
3	RGTH60TS65	650	58	30	194	1.6	30	—	—	—	—	—			—
4	RGTH80TS65	650	70	40	234	1.6	40	—	—	—	—	—			—
5	RGTH00TS65	650	85	50	277	1.6	50	—	—	—	—	—			—
6	RGTH40TS65D	650	40	20	144	1.6	20	—	35	20	1.45	20			—
7	RGTH50TS65D	650	50	25	174	1.6	25	—	35	20	1.45	20			—
8	RGTH60TS65D	650	58	30	194	1.6	30	—	40	20	1.35	20			—
9	RGTH80TS65D	650	70	40	234	1.6	40	—	40	20	1.35	20			—
10	RGTH00TS65D	650	85	50	277	1.6	50	—	50	30	1.45	30			—
11	RGTH40TK65	650	23	14	56	1.6	20	—	—	—	—	—	TO-3PFM		—
12	RGTH50TK65	650	26	16	59	1.6	25	—	—	—	—	—			—
13	RGTH60TK65	650	28	17	61	1.6	30	—	—	—	—	—			—
14	RGTH80TK65	650	31	19	66	1.6	40	—	—	—	—	—			—
15	RGTH00TK65	650	35	21	72	1.6	50	—	—	—	—	—			—
16	RGTH40TK65D	650	23	14	56	1.6	20	—	26	15	1.45	20			—
17	RGTH50TK65D	650	26	16	59	1.6	25	—	26	15	1.45	20			—
18	RGTH60TK65D	650	28	17	61	1.6	30	—	28	16	1.35	20			—
19	RGTH80TK65D	650	31	19	66	1.6	40	—	28	16	1.35	20			—
20	RGTH00TK65D	650	35	21	72	1.6	50	—	34	19	1.45	30			—
21	RGW40TS65	650	40	20	136	1.5	20	—	—	—	—	—	TO-247N		—
22	RGW50TS65	650	50	25	156	1.5	25	—	—	—	—	—			—
23	RGW60TS65	650	60	30	178	1.5	30	—	—	—	—	—			—
24	New RGW60TS65HR	650	60	30	178	1.5	30	—	—	—	—	—			YES
25	RGW80TS65	650	78	40	214	1.5	40	—	—	—	—	—			—
26	New RGW80TS65HR	650	78	40	214	1.5	40	—	—	—	—	—			YES
27	RGW00TS65	650	96	50	254	1.5	50	—	—	—	—	—			—
28	New RGW00TS65HR	650	96	50	254	1.5	50	—	—	—	—	—			YES
29	RGWX5TS65	650	132	75	348	1.5	75	—	—	—	—	—			—
30	New RGWX5TS65HR	650	132	75	348	1.5	75	—	—	—	—	—			YES
31	RGW40TS65D	650	40	20	136	1.5	20	—	40	20	1.45	20			—
32	RGW50TS65D	650	50	25	156	1.5	25	—	40	20	1.45	20			—
33	RGW60TS65D	650	60	30	178	1.5	30	—	40	20	1.45	20			—
34	New RGW60TS65DHR	650	60	30	178	1.5	30	—	40	20	1.45	20			YES
35	New RGW60TS65EHR	650	60	30	178	1.5	30	—	56	33	1.45	30			YES
36	RGW80TS65D	650	78	40	214	1.5	40	—	40	20	1.45	20			—
37	New RGW80TS65DHR	650	78	40	214	1.5	40	—	40	20	1.45	20			YES
38	New RGW80TS65EHR	650	78	40	214	1.5	40	—	73	43	1.45	40			YES
39	RGW00TS65D	650	96	50	254	1.5	50	—	56	30	1.45	30			—
40	New RGW00TS65DHR	650	96	50	254	1.5	50	—	56	30	1.45	30			YES
41	New RGW00TS65EHR	650	96	50	254	1.5	50	—	84	50	1.45	50			YES
42	RGWX5TS65D	650	132	75	348	1.5	75	—	73	40	1.45	40			—
43	New RGWX5TS65DHR	650	132	75	348	1.5	75	—	73	43	1.45	40			YES
44	New RGWX5TS65EHR	650	132	75	348	1.5	75	—	127	80	1.45	75			YES
45	New RGW60TS65CHR	650	64	39	178	1.5	30	—	39	25	1.35	20			YES
46	New RGW80TS65CHR	650	81	48	214	1.5	40	—	39	25	1.35	20			YES
47	New RGW00TS65CHR	650	96	58	254	1.5	50	—	39	25	1.35	20			YES
48	RGW40TK65	650	27	16	61	1.5	20	—	—	—	—	—	TO-3PFM		—
49	RGW50TK65	650	30	18	67	1.5	25	—	—	—	—	—			—
50	RGW60TK65	650	33	20	72	1.5	30	—	—	—	—	—			—
51	RGW80TK65	650	39	23	81	1.5	40	—	—	—	—	—			—
52	RGW00TK65	650	45	26	89	1.5	50	—	—	—	—	—			—
53	RGW40TK65D	650	27	16	61	1.5	20	—	27	16	1.45	20			—
54	RGW50TK65D	650	30	18	67	1.5	25	—	27	16	1.45	20			—
55	RGW60TK65D	650	33	20	72	1.5	30	—	27	16	1.45	20			—
56	RGW80TK65D	650	39	23	81	1.5	40	—	27	16	1.45	20			—
57	RGW80TK65E	650	39	23	81	1.5	40	—	46	26	1.45	50			—
58	RGW00TK65D	650	45	26	89	1.5	50	—	34	19	1.45	30			—
59	RGCL60TS60	600	48	30	111	1.4	30	—	—	—	—	—	TO-247N		—
60	RGCL80TS60	600	65	40	148	1.4	40	—	—	—	—	—			—
61	RGCL60TS60D	600	48	30	111	1.4	30	—	35	20	1.45	20			—
62	RGCL80TS60D	600	65	40	148	1.4	40	—	35	20	1.45	20			—
63	RGCL60TK60	600	30	18	54	1.4	30	—	—	—	—	—	TO-3PFM		—
64	RGCL80TK60	600	35	21	57	1.4	40	—	—	—	—	—			—
65	RGCL60TK60D	600	30	18	54	1.4	30	—	26	15	1.45	20			—
66	RGCL80TK60D	600	35	21	57	1.4	40	—	26	15	1.45	20			—

注：封装采用JEDEC表示。

*1 快速恢复二极管内置
*2 内置SiC肖特基势垒二极管

短路耐量保证产品

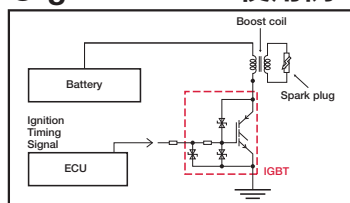
Field Stop Trench IGBT															
No.	Part No.	V _{CES} (V)	I _C (A)		P _D (W)	V _{CE(sat)} Typ (V)	I _C (A)	tsc Min (μsec)	I _F (Diode) (A)		V _F (Diode) Typ (V)	I _F (A)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C					Tc=25°C	Tc=100°C					
67	RGC80TSX8R	1,800	80	40	535	2.2	40	—	80	40	1.8	40	TO-247N		—
68	RGTV60TS65	650	60	30	194	1.5	30	2	—	—	—	—	TO-247N		—
69	RGTV80TS65	650	78	40	234	1.5	40	2	—	—	—	—			—
70	RGTV00TS65	650	95	50	276	1.5	50	2	—	—	—	—			—
71	RGTVX2TS65	650	111	60	319	1.5	60	2	—	—	—	—			—
72	RGTVX6TS65	650	144	80	404	1.5	80	2	—	—	—	—			—
73	RGTV60TS65D	650	60	30	194	1.5	30	2	56	30	1.45	30			—
74	RGTV80TS65D	650	78	40	234	1.5	40	2	73	40	1.45	40			—
75	RGTV00TS65D	650	95	50	276	1.5	50	2	84	50	1.45	50			—
76	RGTVX2TS65D	650	111	60	319	1.5	60	2	98	60	1.45	60			—
77	RGTVX6TS65D	650	144	80	404	1.5	80	2	127	80	1.45	80			—
78	RGTV60TK65	650	33	20	76	1.5	30	2	—	—	—	—	TO-3PFM		—
79	RGTV80TK65	650	39	23	85	1.5	40	2	—	—	—	—			—
80	RGTV00TK65	650	45	26	94	1.5	50	2	—	—	—	—			—
81	RGTV60TK65D	650	33	20	76	1.5	30	2	34	19	1.45	30			—
82	RGTV80TK65D	650	39	23	85	1.5	40	2	40	23	1.45	40			—
83	RGTV00TK65D	650	45	26	94	1.5	50	2	46	26	1.45	50	TO-252		—
84	RGT8BM65D	650	8	4	62	1.65	4	5	7	4	1.45	4			—
85	RGT16BM65D	650	16	8	94	1.65	8	5	16	8	1.4	8	TO-263S (LPDS)/ TO-262		—
86	RGT8NS65D	650	8	4	65	1.65	4	5	7	4	1.45	4			—
87	RGT16NS65D	650	16	8	94	1.65	8	5	16	8	1.4	8			—
88	RGT20NS65D	650	20	10	106	1.65	10	5	16	8	1.4	8			—
89	RGT30NS65D	650	30	15	133	1.65	15	5	26	15	1.5	15			—
90	RGT40NS65D	650	40	20	161	1.65	20	5	35	20	1.45	20			—
91	RGT50NS65D	650	48	25	194	1.65	25	5	35	20	1.45	20			—
92	RGT20NL65	650	20	10	106	1.65	10	5	—	—	—	—	TO-263L (LPDL)		—
93	RGT8NL65D	650	8	4	65	1.65	4	5	7	4	1.45	4			—
94	RGT16NL65D	650	16	8	94	1.65	8	5	16	8	1.4	8			—
95	RGT20NL65D	650	20	10	106	1.65	10	5	16	8	1.4	8			—
96	RGT30NL65D	650	30	15	133	1.65	15	5	26	15	1.5	15			—
97	RGT40NL65D	650	40	20	161	1.65	20	5	35	20	1.45	20			—
98	RGT50NL65D	650	48	25	194	1.65	25	5	35	20	1.45	20			—
99	RGT8TM65D	650	5	3	16	1.65	4	5	5	3	1.45	4	TO-220NFM		—
100	RGT16TM65D	650	9	5	22	1.65	8	5	13	7	1.4	8			—
101	RGT20TM65D	650	10	6	25	1.65	10	5	13	7	1.4	8			—
102	RGT30TM65D	650	14	8	32	1.65	15	5	17	9	1.5	15			—
103	RGT40TM65D	650	17	10	39	1.65	20	5	22	13	1.45	20			—
104	RGT50TM65D	650	21	13	47	1.65	25	5	22	13	1.45	20			—
105	RGT40TS65D	650	40	20	144	1.65	20	5	35	20	1.45	20			—
106	RGT50TS65D	650	48	25	174	1.65	25	5	35	20	1.45	20			—
107	RGT60TS65D	650	55	30	194	1.65	30	5	40	20	1.35	20			—
108	RGT80TS65D	650	70	40	234	1.65	40	5	40	20	1.35	20			—
109	RGT00TS65D	650	85	50	277	1.65	50	5	50	30	1.45	30	TO-247N		—
110	RGS60TS65HR	650	56	30	223	1.65	30	8	—	—	—	—			YES
111	RGS80TS65HR	650	73	40	272	1.65	40	8	—	—	—	—			YES
112	RGS00TS65HR	650	88	50	326	1.65	50	8	—	—	—	—			YES
113	New RGSX5TS65HR	650	114	75	404	1.7	75	8	—	—	—	—			YES
114	RGS30TSX2HR	1,200	30	15	267	1.7	15	10	—	—	—	—			YES
115	RGS30TSX2	1,200	30	15	267	1.7	15	10	—	—	—	—			—
116	RGS50TSX2HR	1,200	50	25	395	1.7	25	10	—	—	—	—			YES
117	RGS50TSX2	1,200	50	25	395	1.7	25	10	—	—	—	—			—
118	RGS80TSX2HR	1,200	80	40	555	1.7	40	10	—	—	—	—			YES
119	RGS80TSX2	1,200	80	40	555	1.7	40	10	—	—	—	—	TO-247N		—
120	RGS60TS65DHR	650	56	30	223	1.65	30	8	56	30	1.45	30			YES
121	RGS80TS65DHR	650	73	40	272	1.65	40	8	56	30	1.45	30			YES
122	RGS00TS65DHR	650	88	50	326	1.65	50	8	56	30	1.45	30			YES
123	New RGSX5TS65DHR	650	114	75	404	1.7	75	8	84	50	1.45	50			YES
124	RGS00TS65EHR	650	88	50	326	1.65	50	8	84	50	1.45	50			YES
125	New RGSX5TS65E	650	114	75	404	1.7	75	8	127	75	1.45	75			—
126	New RGSX5TS65EHR	650	114	75	404	1.7	75	8	127	75	1.45	75			YES
127	RGS30TSX2DHR	1,200	30	15	267	1.7	15	10	30	15	1.65	15			YES
128	RGS30TSX2D	1,200	30	15	267	1.7	15	10	30	15	1.65	15			—
129	RGS50TSX2DHR	1,200	50	25	395	1.7	25	10	50	25	1.65	25			YES
130	RGS50TSX2D	1,200	50	25	395	1.7	25	10	50	25	1.65	25	—		
131	RGS80TSX2DHR	1,200	80	40	555	1.7	40	10	80	40	1.65	40	YES		
132	RGS80TSX2D	1,200	80	40	555	1.7	40	10	80	40	1.65	40	—		

注：封装采用JEDEC表示。()内表示ROHM封装。

*快速恢复二极管内置

Ignition IGBT

●Ignition IGBT使用例



Ignition IGBT										
Part No.	V _{GES} (V)	V _{GES} (V)	I _c (A)	P _D (W)	E _{as} (mJ)	V _{CE(sat)} (V)	Typ	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
RGPZ10BM40FH	430±30	±10	20	107	250	1.6		TO-252		YES
☆RGPZ30BM56HR	560±30	±10	30	166	300	1.4		TO-252		YES
RGPR10BM40FH	430±30	±10	20	107	250	1.6		TO-252		YES
☆RGPR20BM36HR	360±30	±10	20	107	250	1.6		TO-252		YES
RGPR20NS43HR	430±30	±10	20	107	250	1.6		TO-263S (LPDS)		YES
RGPR20NL43HR	430±30	±10	20	107	250	1.6		TO-263L (LPDL)		YES
☆RGPR30BM56HR	560±30	±10	30	166	300	1.4		TO-252		YES
RGPR30BM40HR	400±30	±10	30	125	300	1.6		TO-252		YES
RGPR30NS40HR	400±30	±10	30	125	300	1.6		TO-263S (LPDS)		YES
RGPR50NL45HRB	450±30	±10	45	187	500	1.6		TO-263L (LPDL)		YES

注：封装采用JEDEC表示。()内表示ROHM封装。

☆：开发中

●尺寸 (单位：mm)

TO-252 Each lead has same dimensions	TO-263S (LPDS) Each lead has same dimensions	TO-263L (LPDL) Each lead has same dimensions	TO-262 Each lead has same dimensions
TO-220NFM Each lead has same dimensions	TO-247N Each lead has same dimensions	TO-247GE Each lead has same dimensions	TO-3PFM Each lead has same dimensions

注：封装采用JEDEC表示。()内表示ROHM封装。

●品名构成说明

R	G	T	H	4	0	T	S	6	5	D	H	R
①	②	③	④	⑤	⑥	⑦						

- ① IGBT
② ROHM系列名称
③ 电流(I_c)<T_c=100°C >
例 8 → 4A
16 → 8A
30 → 15A
00 → 50A
X6 → 80A
- ④ 封装
例 BM → TO-252
NS → TO-263S (LPDS)/
TO-262
NL → TO-263L (LPDL)
TM → TO-220NFM
TS → TO-247N/TO-247GE
TK → TO-3PFM
- ⑤ 电压
例 65 → 650V
- ⑥ 是否内置二极管
C → 内置SiC肖特基势垒二极管
D → 内置快速恢复二极管
- ⑦ 表示支持车载

●封装类型

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-252	TL	Embossed tape	2,500
TO-263S (LPDS)	TL	Embossed tape	1,000
TO-263L (LPDL)	TL	Embossed tape	1,000
TO-262	C9	Tube	50
TO-220NFM	C9	Tube	50
TO-247N	C11	Tube	30
TO-247GE	C13	Tube	30
TO-3PFM	C11	Tube	30

注：封装采用JEDEC表示。()内表示ROHM封装。

IPM(智能功率模块)

IGBT-IPM

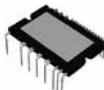
P.143

MOS-IPM

P.143

IPM(智能功率模块)

●IPM(智能功率模块)一览表

V_{DSS}/V_{CES} (V)	I_D/I_C (A)	IGBT-IPM				MOS-IPM	
		Gen.2		Gen.3		Gen.1	
		 HSDIP25		 HSDIP25-VC			
		Thermal Protective Function*					
		TSD	VOT	TSD	VOT	TSD	
HSDIP25		HSDIP25-VC					
600	10	BM63363S-VA BM63363S-VC BM63763S-VA BM63763S-VC	BM63563S-VA BM63563S-VC BM63963S-VA BM63963S-VC	BM63373S-VA BM63373S-VC	BM63573S-VA BM63573S-VC	BM65364S-VA BM65364S-VC	
	15	BM63364S-VA BM63364S-VC BM63764S-VA BM63764S-VC	BM63564S-VA BM63564S-VC BM63964S-VA BM63964S-VC	BM63374S-VA BM63374S-VC BM64374S-VA	BM63574S-VA BM63574S-VC		
	20			BM63375S-VA BM63375S-VC BM64375S-VA	BM63575S-VA BM63575S-VC		
	30	BM63767S-VA BM63767S-VC	BM63967S-VA BM63967S-VC	BM63377S-VA BM63377S-VC BM64377S-VA	BM63577S-VA BM63577S-VC		
	35			BM64378S-VA			

*TSD : Thermal Shut Down、VOT : 模拟温度输出

IPM(智能功率模块)

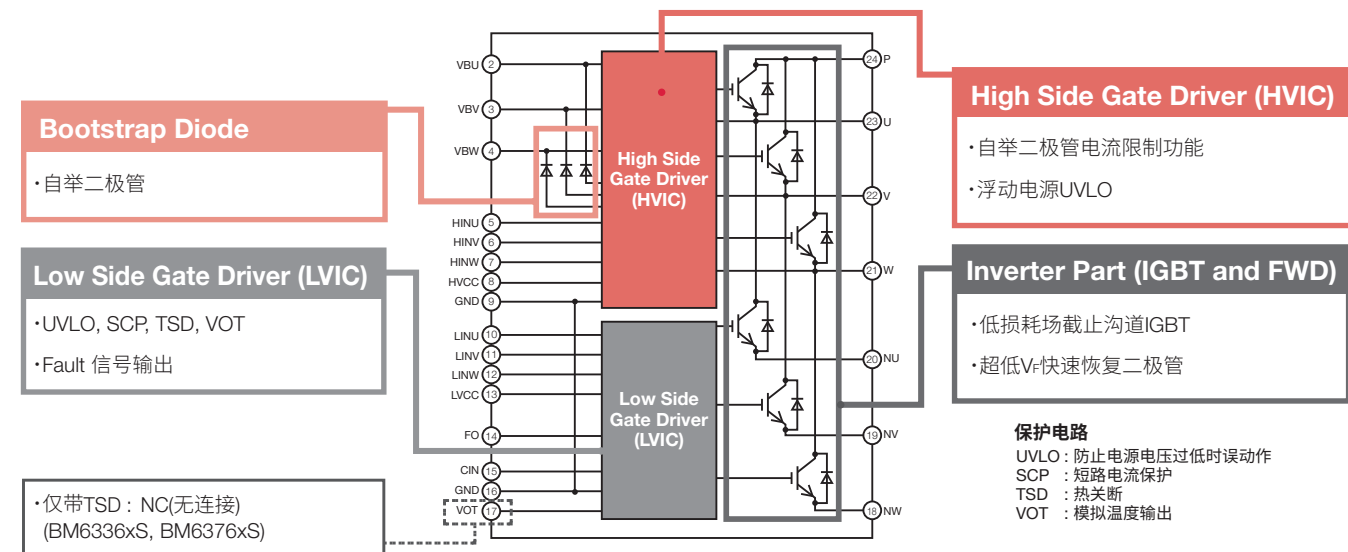
IGBT-IPM									
Generation	Part No.	Power Device	V _{CES} (V)	I _C (A)	PWM Input Frequency (kHz)	Isolation Voltage*1 (Vrms)	Thermal Protective Function*2		Package
Gen.2	BM63363S-VA	IGBT	600	10	up to 6	1,500	✓		HSDIP25
	BM63363S-VC	IGBT	600	10	up to 6	1,500	✓		HSDIP25VC
	BM63563S-VA	IGBT	600	10	up to 6	1,500		✓	HSDIP25
	BM63563S-VC	IGBT	600	10	up to 6	1,500		✓	HSDIP25VC
	BM63763S-VA	IGBT	600	10	up to 20	1,500	✓		HSDIP25
	BM63763S-VC	IGBT	600	10	up to 20	1,500	✓		HSDIP25VC
	BM63963S-VA	IGBT	600	10	up to 20	1,500		✓	HSDIP25
	BM63963S-VC	IGBT	600	10	up to 20	1,500		✓	HSDIP25VC
	BM63364S-VA	IGBT	600	15	up to 6	1,500	✓		HSDIP25
	BM63364S-VC	IGBT	600	15	up to 6	1,500	✓		HSDIP25VC
	BM63564S-VA	IGBT	600	15	up to 6	1,500		✓	HSDIP25
	BM63564S-VC	IGBT	600	15	up to 6	1,500		✓	HSDIP25VC
	BM63764S-VA	IGBT	600	15	up to 20	1,500	✓		HSDIP25
	BM63764S-VC	IGBT	600	15	up to 20	1,500	✓		HSDIP25VC
	BM63964S-VA	IGBT	600	15	up to 20	1,500		✓	HSDIP25
	BM63964S-VC	IGBT	600	15	up to 20	1,500		✓	HSDIP25VC
	BM63767S-VA	IGBT	600	30	up to 20	1,500	✓		HSDIP25
	BM63767S-VC	IGBT	600	30	up to 20	1,500	✓		HSDIP25VC
	BM63967S-VA	IGBT	600	30	up to 20	1,500		✓	HSDIP25
	BM63967S-VC	IGBT	600	30	up to 20	1,500		✓	HSDIP25VC
Gen.3	BM63373S-VA	IGBT	600	10	up to 20	1,500	✓	✓	HSDIP25
	BM63373S-VC	IGBT	600	10	up to 20	1,500	✓	✓	HSDIP25VC
	BM63573S-VA	IGBT	600	10	up to 20	1,500		✓	HSDIP25
	BM63573S-VC	IGBT	600	10	up to 20	1,500		✓	HSDIP25VC
	BM63374S-VA	IGBT	600	15	up to 20	1,500	✓	✓	HSDIP25
	BM63374S-VC	IGBT	600	15	up to 20	1,500	✓	✓	HSDIP25VC
	BM63574S-VA	IGBT	600	15	up to 20	1,500		✓	HSDIP25
	BM63574S-VC	IGBT	600	15	up to 20	1,500		✓	HSDIP25VC
	BM64374S-VA	IGBT	600	15	up to 20	1,500	✓	✓	HSDIP25
	BM63375S-VA	IGBT	600	20	up to 20	1,500	✓	✓	HSDIP25
	BM63375S-VC	IGBT	600	20	up to 20	1,500	✓	✓	HSDIP25VC
	BM63575S-VA	IGBT	600	20	up to 20	1,500		✓	HSDIP25
	BM63575S-VC	IGBT	600	20	up to 20	1,500		✓	HSDIP25VC
	BM64375S-VA	IGBT	600	20	up to 20	1,500	✓	✓	HSDIP25
	BM63377S-VA	IGBT	600	30	up to 20	1,500	✓	✓	HSDIP25
	BM63377S-VC	IGBT	600	30	up to 20	1,500	✓	✓	HSDIP25VC
	BM63577S-VA	IGBT	600	30	up to 20	1,500		✓	HSDIP25
	BM63577S-VC	IGBT	600	30	up to 20	1,500		✓	HSDIP25VC
	BM64377S-VA	IGBT	600	30	up to 20	1,500	✓	✓	HSDIP25
	BM64378S-VA	IGBT	600	35	up to 20	1,500	✓	✓	HSDIP25
MOS-IPM									
Generation	Part No.	Power Device	V _{DS} (V)	I _D (A)	Recommended Switching Frequency (kHz)	Isolation Voltage*1 (Vrms)	Thermal Protective Function*2		Package
Gen.1	BM65364S-VA	MOSFET	600	15	up to 20	1,500	✓		HSDIP25
	BM65364S-VC	MOSFET	600	15	up to 20	1,500	✓		HSDIP25VC

*1 AC60Hz、1min.、使用凸型散热片时支持2,500Vrms *2 TSD : Thermal Shut Down、VOT : 模拟温度输出

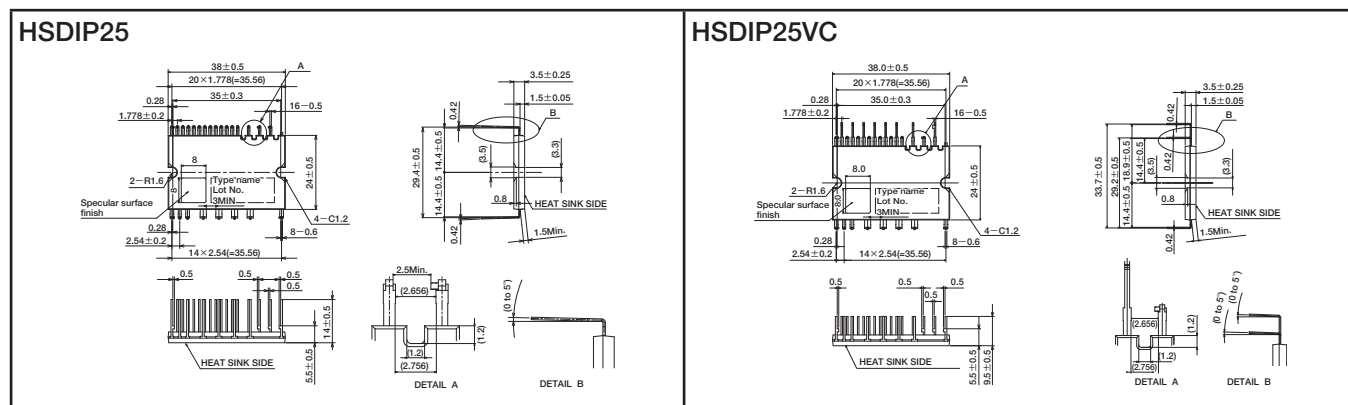
IPM(智能功率模块)

●方框图

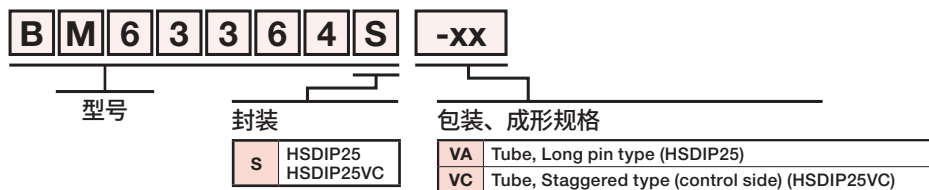
IGBT-IPM



●尺寸 (单位: mm)



●品名构成说明



晶体管	
MOSFET	P.145
数字晶体管	P.171
品名构成说明	P.189
双极晶体管	P.160
封装	P.187

小信号MOSFET

小信号MOSFET系列																										
Package	Product No.		Polarity (ch)	V _{DS} (V)	I _D (A)	P _D (W) (T _a =25°C)	R _{DS(on)} (Ω)																			
	Part No.	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =4.0V		V _{GS} =2.5V		V _{GS} =1.8V		V _{GS} =1.5V		V _{GS} =1.2V		V _{GS} =0.9V					
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max				
DFN0604-3 (VML0604) • 0604 size	RV3C002UN	T2CL	N	20	0.15	0.10	—	—	1.40	2.00	—	—	1.70	2.60	—	—	2.70	5.40	—	—	—	—				
	RV3CA01ZP*1	T2CL	P	-20	-0.10	0.10	—	—	2.50	3.80	—	—	3.40	5.10	—	—	6.00	13.20	—	—	—	—				
DFN0806-3 (VML0806) • 0806 size	RV1C002UN	T2CL	N	20	0.15	0.10	—	—	1.40	2.00	—	—	1.70	2.60	—	—	2.70	5.40	3.80	11.40	—	—				
	RV1C001ZP	T2CL	P	-20	-0.10	0.10	—	—	2.50	3.80	—	—	3.40	5.10	—	—	6.00	13.20	10.00	40.00	—	—				
DFN1006-3 (VML1006) [SC-101] 1006 size	RV2C010UN	T2L	N	20	1.00	0.40	—	—	0.34	0.47	—	—	0.40	0.56	—	—	0.54	0.81	0.70	1.05	—	—				
	RV2C002UN	T2L		20	0.18	0.10	—	—	1.40	2.00	—	—	1.70	2.60	—	—	2.70	5.40	3.80	11.40	—	—				
	RV2E014AJ	T2CL		30	1.40*2	0.6*2	—	—	0.17	0.29	—	—	0.225	0.38	—	—	—	—	—	—	—	—				
	☆RV2L009GN	T2CL	P	60	0.90*2	0.60*2	0.48	0.72	0.66	1.06	—	—	—	—	—	—	—	—	—	—	—	—				
	RV2C014BC	T2CL		-20	-1.40*2	0.60*2	—	—	0.22	0.30	—	—	0.28	0.39	0.37	0.70	—	—	—	—	—	—				
	RV2C001ZP	T2L		-20	-0.10	0.10	—	—	2.50	3.80	—	—	3.40	5.10	—	—	6.00	13.20	10.00	40.00	—	—				
DFN1212-3 1212 size	RV2E012AT	T2CL	P	-30	-1.20*2	0.60*2	0.27	0.41	0.39	0.57	—	—	—	—	—	—	—	—	—	—	—	—				
	☆RV7E040AJ	TCR1		30	4.0	1.1	—	—	41	55	—	—	54	73	—	—	—	—	—	—	—	—				
	☆RV7L020GN	TCR1		60	2.0	1.1	123	164	172	281	—	—	—	—	—	—	—	—	—	—	—	—				
	☆RV7C040BC	TCR1		-20	-4.0	1.1	—	—	53	63	—	—	65	79	89	106	—	—	—	—	—	—				
SOT-723 (VMT3) [SC-105AA] 1212 size	☆RV7E035AT	TCR1	P	-30	-3.5	1.1	65	80	91	113	—	—	—	—	—	—	—	—	—	—	—	—				
	RUM002N02	T2L		20	0.20	0.15	—	—	—	—	—	—	0.80	1.20	—	—	1.20	2.40	1.60	4.80	—	—				
	RUM001L02	T2CL		20	0.10	0.15	—	—	2.50	3.50	—	—	3.00	4.20	—	—	4.50	9.00	6.00	18.00	—	—				
	RYM002N05	T2CL		50	0.20	0.15	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	2.80	2.20	3.30	3.00	9.00				
	RUM002N05	T2L		50	0.20	0.15	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	4.00	2.40	7.20	—	—				
	RSM002N06	T2L		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	—	—	—	—	—	—	—	—				
	RZM002P02	T2L		-20	-0.20	0.15	—	—	0.80	1.20	—	—	1.00	1.50	—	—	1.60	3.50	2.40	9.60	—	—				
	RZM001P02	T2L		-20	-0.10	0.15	—	—	2.50	3.80	—	—	3.40	5.10	—	—	6.00	13.20	10.00	40.00	—	—				
DFN1616-6 1616 size	RSM002P03	T2L	P	-30	-0.20	0.15	0.90	1.40	1.40	2.10	1.60	2.40	—	—	—	—	—	—	—	—	—	—				
	RV5A040AP	TCR1		-12	-4.00	1.50	—	—	0.044	0.062	—	—	0.055	0.077	0.075	0.110	0.090	0.180	—	—	—	—				
SOT-416FL (EMT3F) [SC-89] 1616 size	RV5C040AP	TCR1	P	-20	-4.00	1.50	—	—	0.060	0.085	—	—	0.065	0.095	0.095	0.155	0.130	0.260	—	—	—	—				
	RE1C002UN	TCL		20	0.20	0.15	—	—	—	—	—	—	0.80	1.20	—	—	1.20	2.40	1.60	4.80	—	—				
	RE1C001UN	TCL		20	0.10	0.15	—	—	2.50	3.50	—	—	3.00	4.20	—	—	4.50	9.00	6.00	18.00	—	—				
	RE1J002YN	TCL		50	0.20	0.15	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	2.80	2.20	3.30	3.00	9.00				
	RE1L002SN	TL		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	—	—	—	—	—	—	—	—				
	RE1C002ZP	TL		-20	-0.20	0.15	—	—	0.80	1.20	—	—	1.00	1.50	—	—	1.60	3.50	2.40	9.60	—	—				
SOT-563 (EMT6) [SC-107C] 1616 size	RE1C001ZP	TL	P	-20	-0.10	0.15	—	—	2.50	3.80	—	—	3.40	5.10	—	—	6.00	13.20	10.00	40.00	—	—				
	RE1E002SP	TCL		-30	-0.25	0.15	0.90	1.40	1.40	2.10	1.60	2.40	—	—	—	—	—	—	—	—	—	—				
	EM6K6	T2R		20	0.30	0.15	—	—	—	—	0.70	1.00	0.80	1.20	1.00	1.40	—	—	—	—	—	—				
	EM6K7	T2CR		20	0.20	0.15	—	—	—	—	—	—	0.80	1.20	—	—	1.20	2.40	1.60	4.80	—	—				
	EM6K33	T2R		50	0.20	0.15	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	4.00	2.40	7.20	—	—				
	EM6K34	T2CR		50	0.20	0.15	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	2.80	2.20	3.30	3.00	9.00				
SOT-323 (UMT3) 2021 size	EM6K31	T2R	P	60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	—	—	—	—	—	—	—	—				
	EM6J1	T2R		-20	-0.20	0.15	—	—	0.80	1.20	—	—	1.00	1.50	—	—	1.60	3.50	2.40	9.60	—	—				
	EM6M2	T2R		20	0.20	0.15	—	—	—	—	0.70	1.00	0.80	1.20	1.00	1.40	1.20	2.40	1.60	4.80	—	—				
	☆BSS138BKW	T106		-20	-0.20	0.15	0.80	1.20	—	—	1.00	1.50	1.30	2.20	1.60	3.50	2.40	9.60	—	—	—	—				
	☆BSS138W	T106		60	0.38	0.30	0.50	0.70	0.60	0.84	—	—	1.00	4.00	—	—	—	—	—	—	—	—				
	New BSS84W	T106		60	0.31	0.30	1.70	2.40	2.10	3.00	—	—	3.00	12.00	—	—	—	—	—	—	—	—				
SOT-323FL (UMT3F) [SC-85] 2021 size	☆BSS84W	T106	P	-60	-0.21	0.30	3.60	5.30	4.30	6.40	—	—	—	—	—	—	—	—	—	—	—	—				
	RU1C002UN	TCL		20	0.20	0.15	—	—	—	—	—	—	0.80	1.20	—	—	1.20	2.40	1.60	4.80	—	—				
	RU1C001UN	TCL		20	0.10	0.15	—	—	2.50	3.50	—	—	3.00	4.20	—	—	4.50	9.00	6.00	18.00	—	—				
	RU1J002YN	TCL		50	0.20	0.15	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	2.80	2.20	3.30	3.00	9.00				
	RU1L002SN	TL		60	0.25	0.15	1.70	2.40	2.00	3.00	2.30	3.20	3.00	12.00	—	—	—	—	—	—	—	—				
	RU1C002ZP	TCL		-20	-0.20	0.15	—	—	0.80	1.20	—	—	1.00	1.50	—	—	1.60	3.50	2.40	9.60	—	—				
SOT-363 (UMT6) [SC-88] 2021 size	RU1C001ZP	TL	P	-20	-0.10	0.15	—	—	2.50	3.80	—	—	3.40	5.10	—	—	6.00	13.20	10.00	40.00	—	—				
	RU1E002SP	TCL		-30	-0.25	0.15	0.90	1.40	1.40	2.10	1.60	2.40	—	—	—	—	—	—	—	—	—	—				
	UM6K34N	TCN		50	0.20	0.15	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	2.80	2.20	3.30	3.00	9.00				
	UM6K33N	TN		50	0.20	0.15	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	4.00	2.40	7.20	—	—				
SOT-23 (SST3) 2924 size	UM6K31N	TN	P	60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	—	—	—	—	—	—	—	—				
	UM6J1N	TN		-30	-0.20	0.15	0.90	1.40	1.40	2.10	1.60	2.40	—	—	—	—	—	—	—	—	—	—				
	RYC002N05	T316		50	0.20	0.20	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	2.80	2.20	3.30	3.00	9.00				
	RUC002N05	T116		50	0.20	0.20	—	—	1.60	2.20	—	—	1.70	2.40	—	—	2.00	4.00	2.40	7.20	—	—				
	BSS670	T116		60	0.60	0.35	0.50	0.65	0.60	0.82	—	—	1.00	4.00	—	—	—	—	—	—	—	—				
	BSS138BK	T116		60	0.40	0.35	0.50	0.70	0.60	0.84	—	—	1.00	4.00												

功率MOSFET

功率MOSFET系列																	
Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _a =25°C)	R _{DS(on)} (mΩ)										Q _g (nC) (V _{GS} =4.5V)
	Part No.	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =4.0V		V _{GS} =2.5V		V _{GS} =1.5V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
SOT-323T (TUMT3) [SC-113A] 2021 size	RUF025N02	TL	N	20	2.5	0.8	—	—	39	54	—	—	49	68	80	160	5
	RUF020N02	TL		20	2	0.8	—	—	75	105	—	—	95	135	170	240	2
	RUF015N02	TL		20	1.5	0.8	—	—	130	180	—	—	170	240	220 ^{*1}	310 ^{*1}	1.8
	RTF025N03	TL		30	2.5	0.8	—	—	48	67	50	70	70	98	—	—	3.7
	RSF014N03	TL		30	1.4	0.8	170	240	250	350	270	380	—	—	—	—	1.4 ^{*2}
	RTF016N05	TL		45	1.6	0.8	—	—	140	190	150	210	200	280	—	—	2.3
	RSF015N06	TL	P	60	1.5	0.8	210	290	240	330	255	350	—	—	—	—	2 ^{*2}
	RAF040P01	TCL		-12	-4	0.8	—	—	22	30	—	—	27	38	40	68	37
	RZF030P01	TL		-12	-3	0.8	—	—	28	39	—	—	39	54	72	144	18
	RZF020P01	TL		-12	-2	0.8	—	—	75	105	—	—	105	145	200	400	6.5
	RZF013P01	TL		-12	-1.3	0.8	—	—	190	260	—	—	280	390	530	1,060	2.4
	RRF015P03	TL		-30	-1.5	0.8	115	160	170	240	190	270	—	—	—	—	3.2 ^{*2}
RSF010P05	TL	-45	-1	0.8	330	460	450	630	490	690	—	—	—	—	2.3 ^{*2}		
SOT-363T (TUMT6) [SC-113DA] 2021 size	RUL035N02	TR	N	20	3.5	1	—	—	31	43	—	—	38	53	66	93	5.7
	RF6E065BN	TCR		30	6.5	1	12.9	15.3	18.5	22.7	—	—	—	—	—	—	8.3
	RF6E045AJ	TCR		30	4.5	1	—	—	16.9	23.7	—	—	23.9	33.5	—	—	8.1
	RTL035N03	TR		30	3.5	1	—	—	40	56	42	59	56	79	—	—	4.6
	RXL035N03	TCR		30	3.5	1	35	50	45	65	50	70	—	—	—	—	3.3 ^{*2}
	US6K4	TR	N+N	20	1.5	1	—	—	130	180	—	—	170	240	220 ^{*1}	310 ^{*1}	1.8
	US6K1	TR		30	1.5	1	—	—	170	240	180	250	240	340	—	—	1.6
	US6K2	TR		30	1.4	1	170	240	250	350	270	380	—	—	—	—	1.4 ^{*2}
	RAL035P01	TR	P	-12	-3.5	1	—	—	30	42	—	—	40	56	75	150	22
	RAL025P01	TR		-12	-2.5	1	—	—	44	62	—	—	55	77	90	180	16
	RF6C055BC	TCR		-20	-5.5	1	—	—	19.5	25.7	—	—	24.7	33.1	33.7	63.6	15.2
	RRL035P03	TR		-30	-3.5	1	36	50	52	72	58	81	—	—	—	—	8 ^{*2}
	RRL025P03	TR		-30	-2.5	1	55	75	85	115	95	125	—	—	—	—	5.2 ^{*2}
	US6J12	TCR	P+P	-12	-2	1	—	—	75	105	—	—	105	145	200	400	7.6
	US6J11	TR		-12	-1.3	1	—	—	190	260	—	—	280	390	530	1,060	2.4
	US6M11	TR	N+P	20	1.5	1	—	—	130	180	—	—	170	240	300	600	1.8
	US6M2	TR		-12	-1.3	1	—	—	190	260	—	—	280	390	530	1,060	2.4
				30	1.5	1	—	—	170	240	180	250	240	340	—	—	1.6
	US6M1	TR		-20	-1	1	—	—	280	390	310	430	570	800	—	—	2.1
				30	1.4	1	170	240	250	350	270	380	—	—	—	—	1.4 ^{*2}
	US6M1	TR		-20	-1	1	—	—	280	390	310	430	570	800	—	—	2.1

注1：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。
注2：*1 V_{GS}=1.8V *2 V_{GS}=5V

功率MOSFET系列

Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _a =25°C)	R _{DS(on)} (mΩ)												Q _g (nC) (V _{GS} =4.5V)					
	Part No.	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =4.0V		V _{GS} =2.5V		V _{GS} =1.8V		V _{GS} =1.5V							
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max						
SOT-346T (TSM3) [SC-96] 2928 size 	RUR040N02	TL	N	20	4	1	—	—	25	35	—	—	33	46	42	59	55	110	8					
	RUR020N02	TL		20	2	1	—	—	75	105	—	—	95	135	130	185	170	240	2					
	RQ5E070BN	TCL		30	7	1	12.4	16.1	16.5	20.4	—	—	—	—	—	—	—	—	11.7					
	RQ5E065AJ	TCL		30	6.5	1	—	—	13.7	18.1	—	—	17.9	23.7	—	—	—	—	12.2					
	RQ5E040TN	TL		30	4	1	—	—	34	48	36	50	47	66	—	—	—	—	5.9					
	RQ5E040AJ	TCL		30	4	1	—	—	27	37	—	—	39	54	—	—	—	—	4.3					
	RQ5E035XN	TCL		30	3.5	1	35	50	45	65	50	70	—	—	—	—	—	—	3.3*1					
	RQ5E035BN	TCL		30	3.5	1	28	37	43	56	—	—	—	—	—	—	—	—	3.1					
	RQ5E030AJ	TCL		30	3	1	—	—	57	75	—	—	81	109	—	—	—	—	2.1					
	RQ5E025SN	TL		30	2.5	1	50	70	74	105	83	118	—	—	—	—	—	—	2.9*1					
	RQ5E025TN	TL		30	2.5	1	—	—	66	92	70	98	95	133	—	—	—	—	3.3					
	RQ5H030TN	TL		45	3	1	—	—	48	67	53	74	68	95	—	—	—	—	6.2					
	RQ5H025TN	TL		45	2.5	1	—	—	95	130	100	140	125	175	—	—	—	—	3.2					
	RQ5H020TN	TL		45	2	1	—	—	130	180	135	190	180	250	—	—	—	—	2.9					
	RQ5L035GN	TCL		60	3.5	1	38	51	53	72	—	—	—	—	—	—	—	—	3.8					
	RQ5L030SN	TL		60	3	1	60	85	70	100	75	105	—	—	—	—	—	—	5*1					
	RQ5L020SN	TL		60	2	1	120	170	140	195	150	210	—	—	—	—	—	—	2.7*1					
	RQ5P010SN	TL		100	1	1	370	520	400	560	410	580	—	—	—	—	—	—	3.5*1					
	RQ5A040ZP	TL	P	-12	-4	1	—	—	22	30	—	—	30	42	40	60	55	110	30					
	RQ5A030AP	TL		-12	-3	1	—	—	44	62	—	—	55	77	75	110	90	180	16					
	RQ5A025ZP	TL		-12	-2.5	1	—	—	44	61	—	—	60	84	81	121	110	220	13					
	RQ5A020ZP	TL		-12	-2	1	—	—	75	105	—	—	105	145	150	225	200	400	6.5					
	RQ5C060BC	TCL		-20	-6	1	—	—	16.1	21.1	—	—	20.3	26.9	27.4	51.0	—	—	19.2					
	RQ5C035BC	TCL		-20	-3.5	1	—	—	42	59	—	—	54	76	84	135	—	—	6.5					
	RQ5C030TP	TL		-20	-3	1	—	—	55	75	60	85	90	125	—	—	—	—	9.3					
	RQ5C025TP	TL		-20	-2.5	1	—	—	70	95	75	105	115	160	—	—	—	—	7					
	RQ5C020TP	TL		-20	-2	1	—	—	100	135	110	150	180	250	—	—	—	—	4.9					
	RQ5E050AT	TCL		-30	-5	1	21	26	30	37	—	—	—	—	—	—	—	—	9.7					
	RQ5E040RP	TL		-30	-4	1	32	45	45	63	52	72	—	—	—	—	—	—	10.5*1					
	RQ5E035AT	TCL		-30	-3.5	1	38	50	54	70	—	—	—	—	—	—	—	—	5.2					
	RQ5E030RP	TL		-30	-3	1	55	75	85	115	95	125	—	—	—	—	—	—	5.2*1					
	RQ5E025SP	TL		-30	-2.5	1	70	98	100	140	115	160	—	—	—	—	—	—	5.4*1					
	RQ5E025AT	TCL		-30	-2.5	1	70	91	104	135	—	—	—	—	—	—	—	—	2.7					
	RQ5E020SP	TL		-30	-2	1	85	120	135	190	150	210	—	—	—	—	—	—	4.3*1					
	RQ5E015RP	TL		-30	-1.5	1	115	160	170	240	190	270	—	—	—	—	—	—	3.2*1					
	RQ5H020SP	TL		-45	-2	1	130	190	180	260	200	280	—	—	—	—	—	—	9.5*2					
	RQ5L015SP	TL		-60	-1.5	1	200	280	240	340	255	360	—	—	—	—	—	—	10*2					
SOT-25T (TSM5) 2928 size 	QS5K2	TR	N+N	30	2	1.25	—	—	71	100	76	107	110	154	—	—	—	—	2.8					
SOT-457T (TSM6) [SC-95] 2928 size 	RQ6C050UN	TR	N	20	5	1.25	—	—	22	30	—	—	27	38	32	45	40	80	12					
	RQ6E085BN	TCR		30	8.5	1.25	11.1	14.4	13.9	17.3	—	—	—	—	—	—	—	—	16.6					
	RQ6E080AJ	TCR		30	8	1.25	—	—	12.5	16.5	—	—	15.7	19.5	—	—	—	—	16.2					
	RQ6E055BN	TR		30	5.5	1.25	19	25	30	39	—	—	—	—	—	—	—	—	4.4					
	RQ6E050AJ	TCR		30	5	1.25	—	—	26	35	—	—	38	50	—	—	—	—	4.7					
	RQ6E045BN	TCR		30	4.5	1.25	21	30	35	49	—	—	—	—	—	—	—	—	4.7					
	RQ6E045TN	TR		30	4.5	1.25	—	—	30	43	32	45	42	60	—	—	—	—	7.6					
	RQ6E045SN	TR		30	4.5	1.25	27	38	36	51	40	56	—	—	—	—	—	—	6.8*1					
	RQ6E040XN	TCR		30	4	1.25	35	50	45	65	50	70	—	—	—	—	—	—	33*1					
	RQ6E035TN	TR		30	3.5	1.25	—	—	38	54	40	56	55	77	—	—	—	—	4.6					
	RSQ020N03	TR		30	2	1.25	96	134	148	207	168	235	—	—	—	—	—	—	2.2*1					
	RTQ020N03	TR		30	2	1.25	—	—	89	125	94	132	138	194	—	—	—	—	2.4					
	RVQ040N05	TR		45	4	1.25	38	53	47	66	53	74	—	—	—	—	—	—	6.3*1					
	RTQ020N05	TR		45	2	1.25	—	—	140	190	150	210	200	280	—	—	—	—	2.3					
	RSQ015N06	TR		60	1.5	1.25	210	290	240	330	255	350	—	—	—	—	—	—	2*1					
	QS6K1	TR	N+N	30	1	1.25	—	—	170	238	180	252	260	364	—	—	—	—	1.7					
	QS6K21	TR		45	1	1.25	—	—	300	420	310	435	415	585	—	—	—	—	1.5					
	RQ6A050ZP	TR		-12	-5	1.25	—	—	19	26	—	—	26	36	33	49	44	88	35					
	RQ6A045AP	TCR		-12	-4.5	1.25	—	—	22	30	—	—	28	39	38	57	50	100	40					
	New RAQ045P01	TCR		-12	-4.5	1.25	—	—	22	30	—	—	28	39	38	57	50	100	40					
	RQ6A045ZP	TR		-12	-4.5	1.25	—	—	25	35	—	—	31	43	39	58	50	100	31					
	RQ6C065BC	TCR		-20	-6.5	1.25	—	—	14.9	21	—	—	18.6	26	25	50	—	—	22					
	RQ6C050BC	TCR		-20	-5	1.25	—	—	27	36	—	—	35	47	48	77	—	—	10.4					
	RQ6E060AT	TCR		-30	-6	1.25	20.3	26.4	26.8	34.6	—	—	—	—	—	—	—	—	12.9					
	RQ6E050AT	TCR		-30	-5	1.25	21	27	29	38	—	—	—	—	—	—	—	—	10.4					
	RQ6E045RP	TR		-30	-4.5	1.25	25	35	34	48	38	53	—	—	—	—	—	—	14*1					
	New RRQ045P03	TR		-30	-4.5	1.25	25	35	34	48	38	53	—	—	—	—	—	—	14*1					
	RQ6E035AT	TCR		-30	-3.5	1.25	38	50	54	70	—	—	—	—	—	—	—	—	5.2					
	RQ6E035SP	TR		-30	-3.5	1.25	45	65	65	90	70	95	—	—	—	—	—	—	9.2*1					
	RQ6E030AT	TCR		-30	-3	1.25	70	91	104	135	—	—	—	—	—	—	—	—	2.7					
	RQ6E030SP	TR		-30	-3	1.25	60	80	90	125	100	140	—	—	—	—	—	—	6*1					
	RRQ020P03	TR		-30	-2	1.25	115	160	170	240	190	270	—	—	—	—	—	—	3.2*1					
	RQ6G050AT	TCR		-40	-5	1.25	31	40	38	49	—	—	—	—	—	—	—	—	11					
	RQ6L035AT	TCR		-60	-3.5	1.25	62	78	69	87	—	—	—	—	—	—	—	—	11					
	RQ6L020SP	TCR		-60	-2	1.25	150	210	180	252	190	266	—	—	—	—	—	—	7.2*1					
	RQ6P015SP	TR		-100	-1.5	1.25	350	470	380	510	400	540	—	—	—	—	—	—	17*1					
	QS6J11	TR	P+P	-12	-2	1.25	—	—	75	105	—	—	105	145	1									

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Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _a =25°C)	R _{DS(on)} (mΩ)												Q _g (nC) (V _{GS} =4.5V)	
	Part No.	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =4.0V		V _{GS} =2.5V		V _{GS} =1.8V		V _{GS} =1.5V			
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max		
(TSMT8) 3028 size 	RQ1C075UN	TR	N	20	7.5	1.5	—	—	11	16	—	—	14	20	17	24	20	40	18	
	RQ1C065UN	TR		20	6.5	1.5	—	—	16	22	—	—	19	27	24	32	29	58	11	
	RQ7E110AJ	TCR		30	11	1.5	—	—	6.8	9	—	—	9.1	12.4	—	—	—	—	22	
	RQ1E100XN	TR		30	10	1.5	7.5	10.5	9.5	13.3	10	14	—	—	—	—	—	—	12.7 ^{*1}	
	RQ1E075XN	TCR		30	7.5	1.5	12	17	17	24	19	27	—	—	—	—	—	—	6.8 ^{*1}	
	RQ7G080BG	TCR		40	8	1.5	12.7	16.5	15.5	24	—	—	—	—	—	—	—	—	5.0	
	RQ7L055BG	TCR		60	5.5	1.5	22	29	30	42	—	—	—	—	—	—	—	—	3.9	
	QH8KA4	TCR		30	9	1.5	—	—	12.5	17	13	18	17	24	—	—	—	—	12	
	QH8KA3	TCR		30	9.0 ^{*2}	2.6 ^{*2}	12.3	16.0	18.2	23.7	—	—	—	—	—	—	—	—	7.9	
	QS8K13	TCR		30	6	1.5	20	28	25	35	28	39	—	—	—	—	—	—	5.5 ^{*1}	
	QH8KA2	TCR	N+N	30	4.5	1.5	25	35	40	56	—	—	—	—	—	—	—	—	4.7	
	QH8KA1	TCR		30	4.5 ^{*2}	2.4 ^{*2}	56	73	86	112	—	—	—	—	—	—	—	—	1.5	
	QS8K11	TCR		30	3.5	1.5	35	50	45	65	50	70	—	—	—	—	—	—	3.3 ^{*1}	
	QH8KB6	TCR		40	8	1.5	13.7	17.7	16.4	27	—	—	—	—	—	—	—	—	5.0	
	QH8K26	TR		40	7 ^{*2}	2.6 ^{*2}	27	38	35	50	—	—	—	—	—	—	—	—	2.9 ^{*1}	
	QH8K22	TCR		40	6 ^{*2}	2.5 ^{*2}	34.6	46	43.9	59	—	—	—	—	—	—	—	—	1.3	
	QH8KB5	TCR		40	7.5 ^{*2}	1.5	34	44	44	74	—	—	—	—	—	—	—	—	1.8	
	QS8K21	TR		45	4	1.5	38	53	48	67	53	75	—	—	—	—	—	—	5.4 ^{*1}	
	QH8KC6	TCR		60	5.5	1.5	23	30	31	44	—	—	—	—	—	—	—	—	3.9	
	QH8KC5	TCR		60	3	1.5	70	90	100	140	—	—	—	—	—	—	—	—	1.7	
	New QH8KE6	TCR	N	100	4	1.5	43	56	55	82	—	—	—	—	—	—	—	—	3.7	
	New QH8KE5	TCR		100	2	1.5	155	202	199	299	—	—	—	—	—	—	—	—	1.6	
	QH8K51	TR	N+N	100	2	1.5	240	325	250	340	260	355	—	—	—	—	—	—	4.7 ^{*1}	
	RQ1A070AP	TR	P	-12	-7	1.5	—	—	10	14	—	—	13	19	18	27	24	48	80	
	RQ1A060ZP	TR		-12	-6	1.5	—	—	16	23	—	—	22	31	28	42	39	78	34	
	RQ7E100AT	TCR		-30	-10	1.5	8.7	11.2	11.9	14.8	—	—	—	—	—	—	—	—	26	
	RQ1E070RP	TR		-30	-7	1.5	12	17	17	24	19	27	—	—	—	—	—	—	26 ^{*1}	
	RQ7E055AT	TCR		-30	-5.5	1.5	19.3	24.5	28.2	36.1	—	—	—	—	—	—	—	—	9.4	
	RQ1E050RP	TR		-30	-5	1.5	22	31	32	45	36	50	—	—	—	—	—	—	13 ^{*1}	
	RQ7G080AT	TCR		-40	-8	1.5	14.7	18.2	18.1	22.6	—	—	—	—	—	—	—	—	18	
	RQ7L050AT	TCR		-60	-5	1.5	31	39	35	44	—	—	—	—	—	—	—	—	18	
	QS8J13	TR		P+P	-12	-5.5	1.5	—	—	15	22	—	—	19	28	24	38	29	58	60
	QS8J2	TR			-12	-4	1.5	—	—	26	36	—	—	36	50	46	69	66	132	20
	QH8JA1	TCR	-20		-5	1.5	—	—	28	38	—	—	35	48	49	77	—	—	10.2	
	QS8J5	TR	-30		-5	1.5	28	39	40	56	45	63	—	—	—	—	—	—	10 ^{*1}	
	QS8J4	TR	-30		-4	1.5	40	56	55	77	60	84	—	—	—	—	—	—	8.4 ^{*1}	
	QH8JB5	TCR	-40		-5	1.5	33	41	41	51	—	—	—	—	—	—	—	—	9.0	
	QH8JC5	TCR	-60		-3.5	1.5	71	91	79	101	—	—	—	—	—	—	—	—	8.5	
	QH8MA4	TCR	30		9 ^{*2}	2.6 ^{*2}	12.3	16	18.2	23.7	—	—	—	—	—	—	—	—	7.9	
	QH8MA3	TCR	-30		-8 ^{*2}	2.6 ^{*2}	22	28.6	31	40.3	—	—	—	—	—	—	—	—	9.8	
	QH8MA2	TCR	30		7 ^{*2}	2.5 ^{*2}	22	29	35	46	—	—	—	—	—	—	—	—	3.7	
	QH8MA2	TCR	-30	-5.5 ^{*2}	2.5 ^{*2}	37	48	55	72	—	—	—	—	—	—	—	—	5.2		
	QH8MA2	TCR	30	4.5	1.5	25	35	40	56	—	—	—	—	—	—	—	—	4.7		
	QH8MA2	TCR	-30	-3	1.5	55	80	80	115	—	—	—	—	—	—	—	—	4.3		
	QH8MB5	TCR	N+P	40	4.5	1.5	34	44	44	74	—	—	—	—	—	—	—	—	1.8	
	QH8MB5	TCR		-40	-5	1.5	33	41	41	51	—	—	—	—	—	—	—	—	9.0	
	QH8M22	TCR		40	4.5	1.5	34.6	46	43.9	59	—	—	—	—	—	—	—	—	1.3	
	QH8M22	TCR		-40	-2	1.5	130	190	180	260	—	—	—	—	—	—	—	—	4.4	
	QH8MC5	TCR		60	3	1.5	70	90	100	140	—	—	—	—	—	—	—	—	1.7	
	QH8MC5	TCR		-60	-3.5	1.5	71	91	79	101	—	—	—	—	—	—	—	—	8.5	
	QS8M31	TR		60	3	1.5	80	112	93	130	98	137	—	—	—	—	—	—	4 ^{*1}	
	QS8M31	TR		-60	-2	1.5	150	210	180	252	190	266	—	—	—	—	—	—	7.2 ^{*1}	
	QS8M51	TR		100	2	1.5	240	325	250	340	260	355	—	—	—	—	—	—	4.7 ^{*1}	
	QS8M51	TR		-100	-1.5	1.5	350	470	380	510	400	540	—	—	—	—	—	—	17 ^{*1}	

注1: ()内表示ROHM封装。
注2: *1 V_{GS}=5V *2 P_W≤1s

肖特基势垒二极管复合型功率MOSFET系列 (TUMT、TSMT封装)

肖特基势垒二极管复合型功率MOSFET系列

Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _a =25°C)	R _{DS(on)} (mΩ)										Q _g (nC) (V _{GS} =4.5V)
	Part No.	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =4.0V		V _{GS} =2.5V		V _{GS} =1.5V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
SOT-353T (TUMT5) [SC-113CA] 2021 size	US5U1	TR	N+SBD (0.5A)	30	1.5	1	—	—	170	240	180	250	240	340	—	—	1.6
	US5U2	TR	N+SBD (0.5A)	30	1.4	1	170	240	250	350	270	380	—	—	—	—	1.4*1
	US5U30	TR	P+SBD (0.5A)	-20	-1	1	—	—	280	390	310	430	570	800	—	—	2.1
	US5U35	TR	P+SBD (0.1A)	-45	-0.7	1	600	800	900	1,300	1,000	1,400	—	—	—	—	1.7*1
SOT-25T (TSMT5) 2928 size	QS5U36	TR	N+SBD (0.7A)	20	2.5	1.25	—	—	58	81	—	—	74	104	120	240	3.5
	QS5U34	TR	N+SBD (0.5A)	20	1.5	1.25	—	—	130	180	—	—	170	240	220*6	310*6	1.8
	QS5U13*2	TR	N+SBD (0.5A)	30	2	1.25	—	—	71	100	76	107	110	154	—	—	2.8
	QS5U16*2	TR		30	2	1.25	—	—	71	100	76	107	110	154	—	—	2.8
	QS5U12*3	TR	N+SBD (1A)	30	2	1.25	—	—	71	100	76	107	110	154	—	—	2.8
	QS5U17*3	TR		30	2	1.25	—	—	71	100	76	107	110	154	—	—	2.8
	QS5U28	TR	P+SBD (1A)	-20	-2	1.25	—	—	90	125	97	135	175	245	—	—	4.8
	QS5U23*4	TR	P+SBD (0.5A)	-20	-1.5	1.25	—	—	160	200	180	240	260	340	—	—	4.2
	QS5U26*4	TR		-20	-1.5	1.25	—	—	160	200	180	240	260	340	—	—	4.2
	QS5U21*5	TR	P+SBD (1A)	-20	-1.5	1.25	—	—	160	200	180	240	260	340	—	—	4.2
	QS5U27*5	TR		-20	-1.5	1.25	—	—	160	200	180	240	260	340	—	—	4.2
	QS5U33	TR	P+SBD (1A)	-30	-2	1.25	95	135	145	205	160	225	—	—	—	—	3.4*1
SOT-457T (TSMT6) [SC-95] 2928 size	QS6U22	TR	P+SBD (0.7A)	-20	-1.5	1.25	—	—	155	215	170	235	310	430	—	—	3
	QS6U24	TR		-30	-1	1.25	300	400	500	700	600	800	—	—	—	—	1.7*6

功率MOSFET系列 <MPT3、HEML1616L7、HUML2020L8、HSMT8、HSML3030L10封装>																									
Package	Application	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _a =25°C)	R _{DS(on)} (mΩ)												Q _g (nC) (V _{GS} =4.5V)					
		Part No.	Packing code					V _{GS} =10V		V _{GS} =6V		V _{GS} =4.5V		V _{GS} =4.0V		V _{GS} =2.5V		V _{GS} =1.8V		V _{GS} =1.5V					
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max						
 SOT-89 (MPT3) [SC-62] 4540 size	DC/DC Converter Motor Drive	RHP030N03	T100	N	30	3	2	90	120	—	—	—	—	160	210	—	—	—	—	—	6.5*2				
		RHP020N06	T100		60	2	2	150	200	—	—	200	280	240	340	—	—	—	—	—	7*2				
		RJP020N06	T100		60	2	2	—	—	—	—	165	240	170	250	210	300	—	—	—	5*3				
 (HEML1616L7) Single 1616 size (DFN1616-7T)	Load Switch Switching	RW4E075AJ	TCL1	N	30	7.5	1.5	—	—	—	—	18.5	26	—	—	26.6	38	—	—	—	6.3				
		RW4E065GN	TCL1	N	40	6.5	1.5	18.2	22.5	—	—	25.1	31.6	—	—	—	—	—	—	—	2.1				
		RW4E045AJ	TCL1	N	30	4.5	1.5	—	—	—	—	28	40	—	—	41	58	—	—	—	4				
		RW4E045AT	TCL1	P	-30	-4.5	1.5	34	48	—	—	50	70	—	—	—	—	—	—	—	5.3				
		RW4C045BC	TCL1	P	-20	-4.5	1.5	—	—	—	—	39	56	—	—	52	74	73	117	—	6.5				
 (HUML2020L8) Single 2020 size (DFN2020-8S)	DC/DC Converter Motor Drive	RF4E110GN	TR	N	30	11	2	8.7	11.3	—	—	11.7	16.5	—	—	—	—	—	—	—	3.5				
		RF4E080GN	TR		30	8	2	13.5	17.6	—	—	17.6	31.2	—	—	—	—	—	—	—	2.8				
		RF4E070GN	TR		30	7	2	16.4	21.4	—	—	23	33	—	—	—	—	—	—	—	2.2				
		RF4G100BG	TCR		40	10	2	10.9	14.2	—	—	13.7	23.0	—	—	—	—	—	—	—	5.0				
		RF4L070BG	TCR		60	7	2	21	27	—	—	29	40	—	—	—	—	—	—	—	3.9				
		RF4L055GN	TCR		60	5.5	2	31	43	—	—	45	66	—	—	—	—	—	—	—	4.1				
		RF4E110BN	TR		30	11	2	8.5	11.1	—	—	11.8	15.4	—	—	—	—	—	—	—	12				
	Load Switch Switching	RF4E100AJ	TCR	N	30	10	2	—	—	—	—	9.4	12.4	—	—	13.3	17.9	—	—	—	13				
		RF4E080BN	TR1		30	8	2	13.5	17.6	—	—	18.9	24.6	—	—	—	—	—	—	—	7.2				
		RF4E070BN	TR		30	7	2	22	28.6	—	—	30.8	40	—	—	—	—	—	—	—	4.6				
		RF4E060AJ	TCR		30	6	2	—	—	—	—	28	37	—	—	41	55	—	—	—	4				
		RF4C050AP	TR		-20	-10	2	—	—	—	—	18	26	—	—	22	31	27	45	32	65	55			
		RF4C100BC	TCR		-20	-10	2	—	—	—	—	12	15.6	—	—	15.4	20	23.5	37.6	—	—	23.5			
		RF4E075AT	TCR		-30	-7.5	2	16.7	21.7	—	—	24.4	31.7	—	—	—	—	—	—	—	—	11			
		RF4G060AT	TCR		-40	-6	2	32	40	—	—	40	51	—	—	—	—	—	—	—	—	8.5			
		RF4L040AT	TCR		-60	-4	2	70	89	—	—	78	100	—	—	—	—	—	—	—	—	8.5			
		New RF4P060BG	TCR		100	6	2	41	53	—	—	52	78	—	—	—	—	—	—	—	—	3.7			
	Motor	UT6K3	TCR	N+N	30	5.5	2	—	—	—	—	30	42	—	—	45	63	—	—	—	—	4			
		UT6KB5	TCR		40	5	2	37	48	—	—	48	80	—	—	—	—	—	—	—	—	1.8			
		UT6KC5	TCR		60	3.5	2	73	95	—	—	104	145	—	—	—	—	—	—	—	—	1.7			
		New UT6KE5	TCR	N	100	2	2	152	197	—	—	195	292	—	—	—	—	—	—	—	—	1.6			
		UT6K30	TCR		60	3	2	111	153	—	—	162	223	—	—	—	—	—	—	—	—	1.1*2			
		UT6JA3	TCR		-20	-5	2	—	—	—	—	42	59	—	—	54	76	76	118	—	—	6.5			
		UT6J3	TCR	P+P	-20	-3	2	—	—	—	—	60	85	—	—	65	95	95	155	130	260	85			
		UT6JA2	TCR		-30	-4	2	55	70	—	—	80	103	—	—	—	—	—	—	—	—	3.4			
		UT6JB5	TCR		-40	-3.5	2	95	122	—	—	121	155	—	—	—	—	—	—	—	—	3.3			
		UT6JC5	TCR	N+P	-60	-2.5	2	220	280	—	—	250	320	—	—	—	—	—	—	—	—	3.2			
		UT6MA3	TBR		20	5.5	2	—	—	—	—	30	42	—	—	45	63	—	—	—	—	4			
		UT6MA2	TCR		-20	-5	2	—	—	—	—	42	59	—	—	54	76	—	—	—	—	6.5			
					30	4	2	37	46	—	—	59	80	—	—	—	—	—	—	—	—	2.2			
					-30	-4	2	55	70	—	—	80	103	—	—	—	—	—	—	—	—	3.3			
 (HSMT8) 3333 size	DC/DC Converter Switching	RQ3E180GN	TB	N	30	39*1	20*1	3.3	4.3	—	—	4.3	6.1	—	—	—	—	—	—	—	11				
		RQ3E150GN	TB		30	39*1	17*1	4.7	6.1	—	—	6.2	8.8	—	—	—	—	—	—	—	7.4				
		RQ3E120GN	TB		30	27*1	15*1	6.7	8.8	—	—	9.1	13.8	—	—	—	—	—	—	—	4.8				
		RQ3E100GN	TB		30	21*1	15*1	8.9	11.7	—	—	12	20	—	—	—	—	—	—	—	3.9				
		RQ3E080GN	TB		30	18*1	14*1	12.9	16.7	—	—	17.5	31.2	—	—	—	—	—	—	—	2.8				
		New RH6G040BG	TB1		40	40*1	59*1	2.8	3.6	—	—	4.7	6.5	—	—	—	—	—	—	—	12.4				
		RQ3G150GN	TB		40	39*1	20*1	5.1	7.2	—	—	6.4	8.9	—	—	—	—	—	—	—	11.6				
		RQ3G100GN	TB		40	27*1	15*1	11	14.3	—	—	14.1	18.3	—	—	—	—	—	—	—	4.3				
		New RH6L040BG	TB1		60	40*1	59*1	5.5	7.1	—	—	8	11.2	—	—	—	—	—	—	—	9.2				
		RQ3L090GN	TB		60	30*1	20*1	10.3	13.9	—	—	14.6	21.4	—	—	—	—	—	—	—	13				
		RQ3L050GN	TB		60	13*1	15*1	43	61	—	—	61	86	—	—	—	—	—	—	—	2.8				
		New RH6P040BH	TB1		100	40	59	12	15.6	15.6	23.3	—	—	—	—	—	—	—	—	—	8.8*2				
		RQ3P300BH	TB1		100	39*1	32*1	11.9	11.9	—	—	15.6*4	24.0*4	—	—	—	—	—	—	—	18*2				
		RH6R025BH	TB1		150	25*1	59*1	46	60	49	73	—	—	—	—	—	—	—	—	—	8.7*2				
	Load Switch Switching	RQ3E180BN	TB	N	30	39*1	20*1	2.8	3.9	—	—	3.7	5.2	—	—	—	—	—	—	—	37				
		RQ3E150BN	TB		30	39*1	17*1	3.8	5.3	—	—	5.3	7.4	—	—	—	—	—	—	—	23				
		RQ3E130BN	TB		30	39*1	16*1	4.4	6	—	—	6.7	9.4	—	—	—	—	—	—	—	16				
		RQ3E180AJ	TB1		30	30*1	30*1	—	—	—	—	3.5	4.5	—	—	4.5	5.8	—	—	—	39				
		RQ3E110AJ	TB		30	24*1	15*1	—	—	—	—	8.8	11.7	—	—	12.6	16.5	—	—	—	13.5				
		RQ3E120BN	TB		30	21*1	16*1	6.6	9.3	—	—	8.6	11.9	—	—	—	—	—	—	—	14				
		RQ3E100BN	TB		30	21*1	15*1	7.7	10.4	—	—	11	15.3	—	—	—	—	—	—	—	10.5				
		RQ3E160AD	TB		30	16	2	3.5	4.5	—	—	5	7	—	—	—	—	—	—	—	25				
		RQ3E080BN	TB		30	15*1	14*1	11	15.2	—	—	16	22	—	—	—	—	—	—	—	7.2				
		RQ3E070BN	TB1		30	15*1	13*1	20	27	—	—	29	39	—	—	—	—	—	—	—	4.6				
		RQ3C150BC	TB	P	-20	-30*1	20*1	—	—	—	—	4.8	6.7	—	—	6.1	8.5	8.8	14	—	60				

功率MOSFET

<SOP8封装> (单路)

Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _a =25°C)	R _{DS (on)} (mΩ)						Q _g (nC) (V _{GS} =5V)
	Part No.	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =4.0V		
							Typ	Max	Typ	Max	Typ	Max	
(SOP8) 5060 size 	RS3E135BN	TB	N	30	13.5	2	5.7	7.4	8.5	10.9	—	—	16.6 ^{*1}
	RXH125N03	TB		30	12.5	2	7.5	12	9.5	13.3	10	14	12.7
	RXH100N03	TB1		30	10	2	9.5	13	12	17	13	18	11
	RS3E095BN	TB		30	9.5	2	11.9	14.6	17.5	21.9	—	—	8.3 ^{*1}
	RXH090N03	TB1		30	9	2	12	17	17	24	19	27	6.8
	RXH070N03	TB1		30	7	2	20	28	25	35	28	39	5.8
	RSH070N05	TB1		45	7	2	18	25	23	32	25	35	12
	RS3L140GN	TB		60	14	2	4.9	6.5	6.8	9.6	—	—	31 ^{*1}
	RSH065N06	TB1		60	6.5	2	24	37	28	44	31	48	11
	RS3L045GN	TB		60	4.5	2	43	59	62	92	—	—	3 ^{*1}
	RS3E180AT	TB1	P	−30	−18	2	4.1	5.4	5	6.1	—	—	80 ^{*1}
	RRH140P03	TB		−30	−14	2	5	7	6.7	9.4	7.3	10.2	80
	RS3E130AT	TB1		−30	−13	2	6.5	8.5	8.6	11.2	—	—	83 ^{*2}
	RRH100P03	TB1		−30	−10	2	9	12.6	12.5	17.5	14	19.6	39
	RRH090P03	TB1		−30	−9	2	11	15.4	15	21	17	24	30
	RS3E075AT	TB1		−30	−7.5	2	18	23.5	24	31	—	—	12.8 ^{*1}
	RRH050P03	TB1		−30	−5	2	36	50	52	72	58	80	9.2
	RRH040P03	TB1		−30	−4	2	55	75	85	115	95	125	5.2
	RS3G160AT	TB1		−40	−16	2	5	6.2	6.1	7.6	—	—	55 ^{*1}
	RSH070P05	TB1		−45	−7	2	19	27	25	35	28	39	34
	RS3L110AT	TB1		−60	−11	2	10.1	12.8	11.2	14.3	—	—	55 ^{*1}

<SOP8封装> (双路)

Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _a =25°C)	R _{DS (on)} (mΩ)						Q _g (nC) (V _{GS} =5V)
	Part No.	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =4.0V		
							Typ	Max	Typ	Max	Typ	Max	
(SOP8) 5060 size 	SH8KA7	TB	N+N	30	15*3	4.6*3	7.1	9.1	8.3	10.7	—	—	41*1
	SH8KA4	TB		30	9*3	3*3	16.5	21.4	22.2	28.9	—	—	7.9*1
	SH8KA2	TB		30	8*3	2.8*3	23	28	34	43	—	—	4.1*1
	SH8K12	TB		30	6*3	2	30	42	40	56	45	63	4
	SH8KA1	TB		30	4.5*3	2.7*3	54	69	84	109	—	—	1.6*
	SH8K11	TB		30	3.5	2	70	98	90	126	100	140	1.9
	SH8KB6	TB1		40	8.5	2	14.9	19.4	18.2	26	—	—	5.0*1
	New SH8KB7	TB1		40	13.5	2	6.5	8.4	7.5	10.5	—	—	13*1
	SH8K26	TB1		40	6	2	27	38	35	50	—	—	2.9
	SH8K25	TB1		40	5.2*3	3*3	60	85	80	112	—	—	1.7
	SH8K39	TB		60	13*3	5.8*3	15	21	20	30	—	—	12.8*1
	SH8KC6	TB1		60	6.5	2	25	32	33	46	—	—	3.9*1
	New SH8KC7	TB1		60	10.5	2	9.5	12.4	12.3	17.2	—	—	10.8*1
	SH8K37	TB		60	5.5	2	33	46	44	66	—	—	5.2*1
	SH8K32	TB1		60	4.5	2	46	65	52	73	55	77	7
	SH8K41	TB1		80	3.4	2	90	130	110	150	120	160	6.6
	New SH8KE7	TB1	N	100	8	2	16.1	20.9	19.7	29.6	—	—	9.1*1
	New SH8KE6	TB1		100	4.5	2	45	58	56	84	—	—	3.7*1
	SH8K52	TB	N+N	100	3	2	120	170	135	190	—	—	8.5
	SH8J66	TB1	P+P	-30	-9	2	13.5	18.5	17.5	23.6	19	24.7	35
	SH8J65	TB1		-30	-7	2	21.5	29	29	39	31	40.8	18
	SH8J62	TB1		-30	-4.5	2	40	56	55	77	60	84	8
	SH8JB5	TB1		-40	-8.5	2	12.4	15.3	15	18.7	—	—	25*1
	SH8JC5	TB1		-60	-7.5	2	25	32	28	35	—	—	23*1
	SH8J31	TB		-60	-4.5	2	50	70	55	80	60	85	40*2
	SH8MA4	TB1	N+P	30	9*3	3.0*3	16.5	21.4	22.2	32.5	—	—	7.9*1
				-30	-8.5*3		23	29.6	32	41.3	—	—	9.8*1
	SH8MA3	TB1		30	7*3	2.8*3	23	28	42	57	—	—	3.7*1
				-30	-6*3		40	50	60	73	—	—	5.2*1
	SH8MA2	TB		30	4.5*3	2.7*3	57	80	88	125	—	—	1.5*1
				-30	-4.5*3		63	82	89	115	—	—	3.4*1
	SH8MB5	TB1		40	8.5	2	14.9	19.4	18.2	26	—	—	5*1
				-40	-8.5		13.9	16.8	16.5	21	—	—	25*1
	SH8M24	TB		45	4.5	2	33	46	41	57	46	64	6.8
				-45	-3.5		45	63	60	84	66	92	13
	SH8MC5	TB1		60	6.5	2	25	32	33	46	—	—	3.9*1
				-60	-7		27	33	29	37	—	—	23*1
	SH8M31	TB		60	4.5	2	46	65	52	73	55	77	7*1
				-60	-4.5		50	70	55	80	60	85	20*1
	SH8M41	TB	80	3.4	2	90	130	110	150	120	160	6.6	
			-80	-2.6		165	240	220	300	230	310	8.2	
	SH8M51	TB	100	3	2	120	170	130	180	135	190	8.5	
			-100	-2.5		210	290	230	320	240	340	12.5	

注1: () 内表示ROHM封装。
注2: *1 V_{GS}=4.5V *2 V_{GS}=10V *3 P_W≤1s

<HSOP8封装> (单路)															
Package	Application	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A) (T _C =25°C)	P _D (W) (T _C =25°C)	R _{DS(on)} (mΩ)						Q _g (nC) (V _{GS} =4.5V)	Drive Voltage (V)
		Part No.	Packing code					V _{GS} =10V		V _{GS} =6V		V _{GS} =4.5V			
								Typ	Max	Typ	Max	Typ	Max		
(HSOP8) Single 	Load Switch	RS1E350BN	TB	N	30	80	35	1.2	1.7	—	—	1.8	2.5	95	4.5
		RS1E281BN	TB1		30	80	30	1.7	2.3	—	—	2.3	3.2	50	
		RS1E200BN	TB		30	68	25	2.8	3.9	—	—	3.8	5.3	29	
		RS1E180BN	TB		30	60	25	3.5	4.9	—	—	4.9	6.9	23	
		RS1E240BN	TB	P	30	40	30	2.3	3.2	—	—	3.3	4.6	35	
		RS1E260AT	TB1		−30	−80	40	2.5	3.1	—	—	3.5	4.3	87	
		RS1E220AT	TB1		−30	−76	34	3.3	4.1	—	—	4.6	5.8	65	
		RS1G201AT	TB1		−40	−78	40	4.2	5.2	—	—	5.2	6.5	62	
	RS1L151AT	TB1	−60	−56	40	8.9	11.3	—	—	9.9	12.6	59			
	DC/DC Converter Switching	RS1E350GN	TB	N	30	80	39	1.48	1.76	—	—	1.92	2.40	32.7	
		RS1E321GN	TB1		30	80	34	1.4	1.9	—	—	1.8	2.9	19.6	
		RS1E301GN	TB1		30	80	33	1.7	2.2	—	—	2.2	3.3	18.5	
		RS1E280GN	TB		30	80	31	2.0	2.6	—	—	2.6	3.8	17.1	
		RS1E240GN	TB		30	72	27	2.6	3.3	—	—	3.3	5.2	11.2	
		RS1E200GN	TB		30	57	25	3.6	4.6	—	—	4.7	7.5	7.8	
		RS1E170GN	TB		30	40	23	5.1	6.7	—	—	6.7	10.3	5.9	
		RS1E150GN	TB		30	40	22	6.7	8.8	—	—	8.8	13.3	4.8	
		RS1E130GN	TB		30	35	22	8.9	11.7	—	—	11.7	17.7	3.9	
		New RS6G120BG	TB1		40	120	104	1.03	1.34	—	—	1.74	2.43	34	
		New RS6G100BG	TB1		40	100	59	2.6	3.4	—	—	4.6	6.5	11.8	
		RS1G300GN	TB		40	80	35	1.9	2.5	—	—	2.4	3.0	28.6	
		RS1G260MN	TB		40	80	35	2.4	3.3	—	—	3.2	4.4	44*	
		RS1G180MN	TB		40	57	30	5.0	7.0	—	—	6.7	9.2	19.5*	
		RS1G150MN	TB		40	43	25	7.6	10.6	—	—	10.2	13.3	15*	
		RS1G120MN	TB		40	34	25	11.6	16.2	—	—	15.6	20.7	9.4*	
		New RS6L120BG	TB1		60	120	104	2.1	2.7	—	—	3	4.2	25	
		New RS6L090BG	TB1		60	90	73	3.6	4.7	—	—	5.3	7.4	13.6	
		RS1L180GN	TB		60	68	39	4.2	5.6	—	—	5.9	8.5	34	
		RS1L145GN	TB		60	46	31	6.7	9.7	—	—	9.6	14.1	19.5	
		RS1L120GN	TB		60	36	27	9.3	12.7	—	—	13.4	19.8	14	
		New RS6P100BH	TB1		100	100	104	4.5	5.9	5.8	8.7	—	—	45*	6.0
		New RS6P060BH	TB1		100	60	73	8.2	10.6	10.7	16	—	—	25*	
		New RS1P600BH	TB1		100	60	35	6.7	8.8	8.6	12.9	—	—	32*	
		New RS6R060BH	TB1		150	60	104	16.7	21.8	17.9	26.8	—	—	46*	
		New RS6R035BH	TB1		150	35	73	32	41	34	59	—	—	25*	

注1：()内表示ROHM封装。
注2：*V_{GS}=10V

<HSOP8封装> (双路)													
Package	Application	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A) (T _a =25°C)	P _D (W) (T _a =25°C)	R _{DS(on)} (mΩ)				Q _g (nC) (V _{GS} =4.5V)	Drive Voltage (V)
		Part No.	Packing code					V _{GS} =10V		V _{GS} =4.5V			
								Typ	Max	Typ	Max		
 (HSOP8) Asymmetry Dual	Switching	HP8K24	TB	N+N	30	80*1	31*1	2.3	3	3.2	4.2	17.2	4.5
					30	27*1	22*1	6.7	8.8	9.1	13.3	4.8	
		HP8K22	TB		30	57*1	25*1	3.6	4.6	4.7	7.5	7.8	
					30	27*1	22*1	6.7	8.8	9.1	13.3	4.8	
 (HSOP8) Symmetry Dual	Motor	HP8MA2	TB1	N+P	30	18*2	7*2	7.5	9.6	11.7	16.5	10.5	
					-30	-15*2	7*2	13.2	17.9	21	29	12.8	
		HP8M31	TB1		60	8.5*2	7*2	46	65	52	73	6.2	
					-60	-8.5*2	7*2	50	70	55	80	15.7	
		HP8M51	TB1		100	4.5*2	7*2	120	170	130	180	8.5	
					-100	-4.5*2	7*2	210	290	230	320	12.5	
 (HSOP8) Drain Common Dual	Load Switch	HP8KA1	TB	N+N	30	14*1	3*1	3.5	5	5	7	24	

注1：()内表示ROHM封装。
注2：*1 T_C=25°C *2 P_W≤1s

功率MOSFET

功率MOSFET系列																
Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A) (T _C =25°C)	P _D (W) (T _C =25°C)	R _{DS} (on) (mΩ)								Q _g (nC) (V _{GS} =10V)	
	Part No.	Packing code					V _{GS} =10V		V _{GS} =6.0V		V _{GS} =4.5V		V _{GS} =4.0V			
							Typ	Max	Typ	Max	Typ	Max	Typ	Max		
TO-252 (DPAK) 	New RD3G07BBG	TL1	N	40	70	89	1.75	2.27	—	—	2.6	3.7	—	—	28 ^{*3}	
	RD3G600GN	TL		40	60	40	2.8	3.6	—	—	3.3	4.3	—	—	46.5	
	RD3G500GN	TL		40	50	35	3.9	4.9	—	—	4.7	6.3	—	—	31	
	RD3G400GN	TL		40	40	26	5.6	7.5	—	—	7	9.5	—	—	19	
	New RD3G03BBG	TL1		40	35	50	5	6.5	—	—	7.6	10.6	—	—	9.2 ^{*3}	
	RD3H200SN	TL1		45	20	20	20	28	—	—	25	35	28	40	12 ^{*1}	
	RD3L08BGN	TL		60	80 ^{*2}	119	4.2	5.5	—	—	5.7	8.1	—	—	71	
	New RD3L07BBG	TL1		60	70	89	3	3.9	—	—	4.1	5.7	—	—	23 ^{*3}	
	New RD3L03BBG	TL1		60	35	50	8.7	11.3	—	—	12.1	16.9	—	—	6.8 ^{*3}	
	RD3L220SN	TL1		60	22	20	18	26	—	—	21	30	23	33	30	
	RD3L150SN	TL1		60	15	20	28	40	—	—	33	47	36	51	18	
	RD3L080SN	TL1		60	8	15	57	80	—	—	70	98	78	109	9.4	
	RD3L050SN	TL1		60	5	15	78	109	—	—	94	131	100	140	8	
	RD3P08BBD	TL		100	80 ^{*2}	119	8.6	11.6	9.7	16	—	—	—	—	37	
	New RD3P07BBH	TL1		100	70	89	5.9	7.7	7.5	11.2	—	—	—	—	38	
	New RD3P03BBH	TL1		100	35	50	18	23	23	34	—	—	—	—	12.4	
	RD3P200SN	TL1		100	20	20	33	46	—	—	—	—	36	50	55	
	RD3P175SN	TL1		100	17.5	20	75	105	—	—	80	112	85	119	24	
	RD3P100SN	TL1		100	10	20	95	133	—	—	100	140	105	147	18	
	RD3P050SN	TL1		100	5	15	135	190	—	—	142	200	145	205	14	
	RD3S100CN	TL1		190	10	85	130	182	—	—	—	—	136	190	52	
	RD3S075CN	TL1		190	7.5	52	240	336	—	—	—	—	248	347	30	
	RD3T100CN	TL1		200	10	85	140	182	—	—	—	—	—	—	25	
	RD3T075CN	TL1		200	7.5	52	250	325	—	—	—	—	—	—	15	
	RD3T050CN	TL1		200	5	29	540	760	—	—	—	—	—	—	8.3	
	RD3U080CN	TL1		250	8	85	225	300	—	—	—	—	—	—	25	
	RD3U060CN	TL1		250	6	52	410	530	—	—	—	—	—	—	15	
	RD3U040CN	TL1		250	4	29	930	1,300	—	—	—	—	—	—	8.5	
	RD3G07BAT	TL1		P	-40	-70	101	5.7	7.1	—	—	6.9	8.7	—	—	105
	RD3G03BAT	TL1			-40	-35	56	15	19.1	—	—	18.5	24	—	—	38
	RD3G01BAT	TL1			-40	-15	25	31	39	—	—	38	49	—	—	19.3
	RD3H160SP	TL1			-45	16	20	35	50	—	—	45	63	50	70	16 ^{*1}
	RD3H080SP	TL1	-45		-8	15	65	91	—	—	95	133	105	147	9 ^{*1}	
	RD3H045SP	TL1	-45		-4.5	15	112	157	—	—	160	224	185	259	5.6 ^{*1}	
	RD3L07BAT	TL1	-60		-70	101	10.1	12.7	—	—	11.1	14.1	—	—	105	
	RD3L03BAT	TL1	-60		-35	56	32	41	—	—	36	46	—	—	37	
	RD3L140SP	TL1	-60		-14	20	60	84	—	—	73	103	77	108	27	
	RD3L01BAT	TL1	-60		-10	26	65	84	—	—	73	93	—	—	15.2	
	RD3P130SP	TL1	-100		-13	20	135	200	—	—	150	220	155	230	40	
	(TO-220FM) (TO-220FP) 	RCX700N20	—	N	200	70	83	30.5	42.7	—	—	—	—	—	125	
		RCX450N20	—		200	45	69	42	55	—	—	—	—	—	80	
		RCX300N20	—		200	30	61	60	80	—	—	—	—	—	60	
		RCX200N20	—		200	20	48	100	130	—	—	—	—	—	40	
RCX160N20		—	200		16	43	135	180	—	—	—	—	—	26		
RCX120N20		—	200		12	40	250	325	—	—	—	—	—	15		
RCX081N20		—	200		8	40	470	770	—	—	—	—	—	9		
RCX511N25		—	250		51	84	48	65	—	—	—	—	—	120		
RCX330N25		—	250		33	69	77	105	—	—	—	—	—	80		
RCX220N25		—	250		22	61	105	140	—	—	—	—	—	60		
RCX120N25		—	250		12	48	180	235	—	—	—	—	—	35		
RCX100N25		—	250		10	43	245	320	—	—	—	—	—	26.5		
RCX080N25		—	250		8	35	460	600	—	—	—	—	—	15		
RCX051N25		—	250		5	30	970	1,360	—	—	—	—	—	9		
TO-220AB 	New RX3G18BBG	C16	N	40	180	178	1.13	1.47	—	—	1.43	2	—	—	105 ^{*3}	
	New RX3G07BBG	C16		40	70	89	2.3	3	—	—	3.2	4.4	—	—	28 ^{*3}	
	RX3G18BGN	C16		40	180	125	1.17	1.64	—	—	1.33	1.87	—	—	168	
	RX3G07CGN	C16		40	70	78	3.5	4.7	—	—	4.4	5.9	—	—	32	
	New RX3L18BBG	C16		60	180	178	1.54	2	—	—	1.9	2.66	—	—	77 ^{*3}	
	New RX3L07BBG	C16		60	70	89	3.5	4.6	—	—	4.7	6.5	—	—	23 ^{*3}	
	RX3L18BGN	C16		60	180	166	2.00	2.70	—	—	2.77	4.16	—	—	139	
	RX3L07BGN	C16		60	70	96	5.2	7.2	—	—	7.3	10.9	—	—	55	
	New RX3P10BBH	C16		100	105	178	2.8	3.7	3.2	4.8	—	—	—	—	135	
	New RX3P07CBH	C16		100	70	125	4	5.2	4.8	7.2	—	—	—	—	73	
	New RX3P07BBH	C16		100	70	89	6.5	8.4	8	12	—	—	—	—	38	

注1：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。
 注2：*1 V_{GS}=5V *2 V_{GS}=10V *3 V_{GS}=4.5V

功率MOSFET系列															
Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A) (T _C =25°C)	P _D (W) (T _C =25°C)	R _{DS (on)} (mΩ)								Q _g (nC) (V _{GS} =10V)
	Part No.	Packing code					V _{GS} =10V		V _{GS} =6.0V		V _{GS} =4.5V		V _{GS} =4.0V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	
TO-263AB (LPTL) 	RJ1G12BGN	TLL	N	40	120	178	1.38	1.86	—	—	1.54	2.08	—	—	165
	RJ1G08CGN	TLL		40	80	78	4.2	5.6	—	—	5	6.7	—	—	31.1
	RJ1L12BGN	TLL		60	120*2	192	2.1	2.9	—	—	2.7	4.1	—	—	175
	RJ1L12CGN	TLL		60	120*2	166	2.5	3.4	—	—	3.2	4.8	—	—	139
	RJ1L12DGN	TLL		60	120*2	125	3.9	5.3	—	—	5.1	7.7	—	—	88
	RJ1L08CGN	TLL		60	80*2	96	5.3	7	—	—	7.4	10.7	—	—	55
	RJ1P12BBD	TLL		100	120*2	178	3.8	5.3	4.9	7	—	—	—	—	91.5
TO-263S (LPTS) [SC-83] (D2PAK) 	RSJ650N10	TL	N	100	65	100	6.5	9.1	—	—	—	—	7	9.8	260
	RSJ550N10	TL		100	55	100	12	16.8	—	—	—	—	13.5	18.9	143
	RSJ400N10	TL		100	40	50	19	27	—	—	—	—	21	30	90
	RSJ301N10	TL		100	30	50	33	46	—	—	—	—	36	50	60
	RCJ700N20	TL		200	70	297	30.5	42.7	—	—	—	—	—	—	125
	New RCJ451N20	TL		200	45	211	42	55	—	—	—	—	—	—	80
	RCJ300N20	TL		200	30	166	60	80	—	—	—	—	—	—	60
	RCJ200N20	TL		200	20	106	100	130	—	—	—	—	—	—	40
	RCJ160N20	TL		200	16	85	135	180	—	—	—	—	—	—	26
	RCJ120N20	TL		200	12	52	250	325	—	—	—	—	—	—	15
	RCJ081N20	TL		200	8	40	550	770	—	—	—	—	—	—	9
	RCJ510N25	TL		250	51	304	48	65	—	—	—	—	—	—	120
	New RCJ331N25	TL		250	33	211	77	105	—	—	—	—	—	—	80
	RCJ220N25	TL		250	22	166	105	140	—	—	—	—	—	—	60
	RCJ120N25	TL		250	12	107	180	235	—	—	—	—	—	—	35
	RCJ100N25	TL		250	10	85	245	320	—	—	—	—	—	—	26.5
	RCJ050N25	TL		250	5	30	970	1,360	—	—	—	—	—	—	9
	RSJ250P10	TL	P	-100	-25	50	45	63	—	—	48	67	50	70	60*1
	RSJ151P10	TL		-100	-15	50	85	120	—	—	95	135	100	140	64

注1：封装采用JEDEC表示。 ()内表示ROHM封装，[]内表示JEITA编号，〈 〉内表示GENERAL编号。
注2：*1 V_{GS}=5V *2 V_{GS}=10V

功率MOSFET

低噪声型

Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _C =25°C)	R _{DS (on)} (Ω)		Q _g (nC) V _{GS} =10V
	Part No.	Packing code					V _{GS} =10V		
							Typ	Max	
(SOP8) 	R6000ENH	TB1	N	600	0.5	2.0	7.300	8.800	4.3
	R6002ENH	TB1		600	1.7	2.0	2.800	3.400	6.5
TO-252 (DPAK) 	R6011END3	TL1	N	600	11	124	0.340	0.390	32
	R6009END3	TL1		600	9	94	0.500	0.535	23
	R6007END3	TL1		600	7	78	0.570	0.620	20
	R6004END3	TL1		600	4	59	0.900	0.980	15
	R6002END3	TL1		600	1.7	26	2.800	3.400	6.5
	R6511END3	TL1		650	11	124	0.360	0.400	32
	R6509END3	TL1		650	9	94	0.530	0.585	24
	R6507END3	TL1		650	7	78	0.605	0.665	20
	R6504END3	TL1		650	4	58	0.955	1.050	15
	R6502END3	TL1		650	1.7	26	3.050	4.000	6.5
TO-263S (LPTS) [SC-83] (D2PAK) 	R6024ENJ	TL	N	600	24	245	0.150	0.165	70
	R6020ENJ	TL		600	20	231	0.170	0.196	60
	R6015ENJ	TL		600	15	184	0.260	0.290	40
	R6011ENJ	TL		600	11	124	0.340	0.390	32
	R6009ENJ	TL		600	9	94	0.500	0.535	23
	R6007ENJ	TL		600	7	78	0.570	0.620	20
	R6004ENJ	TL		600	4	58	0.900	0.980	15
	R6524ENJ	TL		650	24	245	0.160	0.185	70
	R6520ENJ	TL		650	20	231	0.185	0.205	61
	R6515ENJ	TL		650	15	184	0.280	0.315	40
	R6511ENJ	TL		650	11	124	0.360	0.400	32
	R6509ENJ	TL		650	9	94	0.530	0.585	24
	R6507ENJ	TL		650	7	78	0.605	0.665	20
	R6504ENJ	TL		650	4	58	0.955	1.050	15
(TO-220FM) (TO-220FP) 	R6030ENX	C7 G	N	600	30	86	0.115	0.130	85
	R6024ENX	C7 G		600	24	74	0.150	0.165	70
	R6020ENX	C7 G		600	20	68	0.170	0.196	60
	R6015ENX	C7 G		600	15	60	0.260	0.290	40
	R6011ENX	C7 G		600	11	53	0.340	0.390	32
	R6009ENX	C7 G		600	9	48	0.500	0.535	23
	R6007ENX	C7 G		600	7	46	0.570	0.620	20
	R6004ENX	C7 G		600	4	35	0.900	0.980	15
	R6530ENX	C7 G		650	30	86	0.125	0.140	90
	R6524ENX	C7 G		650	24	74	0.160	0.185	70
	R6520ENX	C7 G		650	20	68	0.185	0.205	61
	R6515ENX	C7 G		650	15	60	0.280	0.315	40
	R6511ENX	C7 G		650	11	53	0.360	0.400	32
	R6509ENX	C7 G		650	9	48	0.530	0.585	24
	R6507ENX	C7 G		650	7	46	0.605	0.665	20
	R6504ENX	C7 G		650	4	35	0.955	1.050	15
TO-247AD (TO-247) 	R6076ENZ4	C13	N	600	76	735	0.038	0.042	260
	R6047ENZ4	C13		600	47	481	0.066	0.072	145
	R6035ENZ4	C13		600	35	379	0.092	0.102	110
	R6030ENZ4	C13		600	30	305	0.115	0.130	85
	R6024ENZ4	C13		600	24	245	0.150	0.165	70
	R6020ENZ4	C13		600	20	231	0.170	0.196	60
	R6576ENZ4	C13		650	76	735	0.040	0.046	260
	R6547ENZ4	C13		650	47	480	0.070	0.080	150
	R6535ENZ4	C13		650	35	379	0.098	0.115	110
	R6530ENZ4	C13		650	30	305	0.125	0.140	90
	R6524ENZ4	C13		650	24	245	0.160	0.185	70
	R6520ENZ4	C13		650	20	231	0.185	0.205	61
(TO-3PF) 	R6035ENZ	C17	N	600	35	120	0.092	0.102	110
	R6030ENZ	C17		600	30	120	0.115	0.130	85
	R6024ENZ	C17		600	24	120	0.150	0.165	70
	R6020ENZ	C17		600	20	120	0.170	0.196	60
	R6015ENZ	C17		600	15	120	0.260	0.290	40
	R6535ENZ	C17		650	35	102	0.098	0.115	110
	R6530ENZ	C17		650	30	86	0.125	0.140	90
	R6524ENZ	C17		650	24	74	0.165	0.185	70

注：封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号, < >内表示GENERAL编号。

高速开关型											
Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _C =25°C)	R _{DS (on)} (Ω)		Q _g (nC) V _{GS} =10V		
	Part No.	Packing code					V _{GS} =10V				
							Typ	Max			
TO-252 (DPAK) 	R6011KND3	TL1	N	600	11	124	0.340	0.390	22		
	R6009KND3	TL1		600	9	94	0.500	0.535	16.5		
	R6007KND3	TL1		600	7	78	0.570	0.620	15		
	R6006KND3	TL1		600	6	70	0.720	0.830	12		
	New R6014YND3	TL1		600	14	132	0.215*	0.260*	20		
	New R6010YND3	TL1		600	10	92	0.324*	0.390*	15		
	R6003KND3	TL1		600	3	44	1.300	1.500	8		
	R6511KND3	TL1		650	11	124	0.360	0.400	22		
	R6509KND3	TL1		650	9	94	0.530	0.585	16.5		
	R6507KND3	TL1		650	7	78	0.605	0.665	15		
	R6504KND3	TL1		650	4	58	0.955	1.050	10		
	R8006KND3	TL1		800	6	83	0.750	0.900	22		
	R8003KND3	TL1		800	3	48	1.500	1.800	11.5		
	R8002KND3	TL1		800	1.6	30	3.500	4.200	7.5		
TO-263S (LPTS) [SC-83] (D2PAK) 	R6024KNJ	TL	N	600	24	245	0.150	0.165	46		
	R6020KNJ	TL		600	20	231	0.170	0.196	40		
	R6015KNJ	TL		600	15	184	0.260	0.290	30		
	R6011KNJ	TL		600	11	124	0.340	0.390	22		
	R6009KNJ	TL		600	9	94	0.500	0.535	16.5		
	R6007KNJ	TL		600	7	78	0.570	0.620	15		
	R6004KNJ	TL		600	4	58	0.900	0.980	10		
	R6524KNJ	TL		650	24	245	0.160	0.185	46		
	R6520KNJ	TL		650	20	231	0.185	0.205	40		
	R6515KNJ	TL		650	15	184	0.280	0.315	30		
	R6511KNJ	TL		650	11	124	0.360	0.400	22		
	R6509KNJ	TL		650	9	94	0.530	0.585	16.5		
	R6507KNJ	TL		650	7	78	0.605	0.665	15		
	R6504KNJ	TL		650	4	58	0.955	1.050	10		
TO-220AB 	R6535KNX3	C16	N	650	35	370	0.098	0.115	72		
	R6530KNX3	C16		650	30	307	0.125	0.140	56		
	R6524KNX3	C16		650	24	253	0.160	0.185	45		
	R6520KNX3	C16		650	20	220	0.185	0.205	40		
	R6515KNX3	C16		650	15	161	0.280	0.315	27.5		
(TO-220FM) (TO-220FP) 	R6030KNX	C7 G	N	600	30	86	0.115	0.130	56		
	R6024KNX	C7 G		600	24	74	0.150	0.165	46		
	R6020KNX	C7 G		600	20	68	0.170	0.196	40		
	R6015KNX	C7 G		600	15	60	0.260	0.290	30		
	R6011KNX	C7 G		600	11	53	0.340	0.390	22		
	R6009KNX	C7 G		600	9	48	0.500	0.535	16.5		
	R6007KNX	C7 G		600	7	46	0.570	0.620	15		
	R6006KNX	C7 G		600	6	40	0.720	0.830	12		
	R6004KNX	C7 G		600	4	35	0.900	0.980	10		
	New R6061YNX	C7 G		600	26	100	0.050*	0.060*	80		
	New R6049YNX	C7 G		600	22	90	0.068*	0.082*	20		
	New R6038YNX	C7 G		600	18	81	0.080*	0.096*	50		
	New R6027YNX	C7 G		600	14	70	0.112*	0.135*	40		
	New R6022YNX	C7 G		600	13	65	0.137*	0.165*	35		
	New R6020YNX	C7 G		600	12	62	0.154*	0.185*	30		
	New R6014YNX	C7 G		600	9	54	0.215*	0.260*	20		
	New R6010YNX	C7 G		600	7	47	0.324*	0.390*	15		
	R6530KNX	C7 G		650	30	86	0.125	0.140	56		
	R6524KNX	C7 G		650	24	74	0.160	0.185	46		
	R6520KNX	C7 G		650	20	68	0.185	0.205	40		
	R6515KNX	C7 G		650	15	60	0.280	0.315	30		
	R6511KNX	C7 G		650	11	53	0.360	0.400	22		
	R6509KNX	C7 G		650	9	48	0.530	0.585	16.5		
	R6507KNX	C7 G		650	7	46	0.605	0.665	14.5		
	R6504KNX	C7 G		650	4	35	0.955	1.050	10		
	R8019KNX	C7 G		800	19	83	0.200	0.240	65		
	R8011KNX	C7 G		800	11	65	0.370	0.450	37		
	R8009KNX	C7 G		800	9	59	0.500	0.600	27		
	R8006KNX	C7 G		800	6	52	0.750	0.900	22		
	R8003KNX	C7 G		800	3	48	1.500	1.800	11.5		
	R8002KNX	C7 G		800	1.6	28	3.500	4.200	7.5		
	TO-247AD (TO-247) 	R6076KNZ4		C13	N	600	76	735	0.038	0.042	165
		R6047KNZ4		C13		600	47	481	0.066	0.072	100
		R6035KNZ4		C13		600	35	379	0.095	0.102	72
R6030KNZ4		C13	600	30		305	0.115	0.130	56		
R6024KNZ4		C13	600	24		245	0.150	0.165	46		
R6020KNZ4		C13	600	20		231	0.170	0.196	40		
R6576KNZ4		C13	650	76		735	0.040	0.046	165		
R6547KNZ4		C13	650	47		481	0.070	0.080	100		
R6535KNZ4		C13	650	35		379	0.098	0.115	72		
R6530KNZ4		C13	650	30		305	0.125	0.140	56		
R6524KNZ4		C13	650	24		245	0.160	0.185	45		
R6520KNZ4		C13	650	20		231	0.185	0.205	40		
(TO-3PF) 	R6035KNZ	C17	N	600	35	102	0.092	0.102	72		
	R6030KNZ	C17		600	30	86	0.115	0.130	56		
	R6024KNZ	C17		600	24	74	0.150	0.165	45		
	R6020KNZ	C17		600	20	68	0.170	0.196	40		
	R6015KNZ	C17		600	15	60	0.260	0.290	27.5		
	R6535KNZ	C17		650	35	102	0.098	0.115	72		
	R6530KNZ	C17		650	30	86	0.125	0.140	56		
	R6524KNZ	C17		650	24	74	0.160	0.185	45		
	R6520KNZ	C17		650	20	68	0.185	0.205	40		
	R6515KNZ	C17		650	15	60	0.280	0.315	27.5		

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*V_{GS}=12V

功率MOSFET

快速反向恢复时间型 〈PrestoMOS™〉										
Package	Product No.		Polarity (ch)	V _{DSS} (V)	I _D (A)	P _D (W) (T _C =25℃)	R _{DS (on)} (Ω)		Q _g Typ (nC) V _{GS} =15V	trr Typ (ns)
	Part No.	Packing code					V _{GS} =15V			
							Typ	Max		
TO-252 (DPAK) 	R6009JND3	TL1	N	600	9	125	0.450	0.585	22	65
	R6007JND3	TL1		600	7	96	0.600	0.780	17.5	60
	R6006JND3	TL1		600	6	86	0.720	0.936	15.5	58
	R6004JND3	TL1		600	4	60	1.100	1.430	10.5	45
	☆R6013VND3	TL1		600	13	131	0.250	0.300	21*	65
TO-263S (LPTS) [SC-83] (D2PAK) 	R6020JNJ	TL	N	600	20	252	0.180	0.234	45	85
	R6018JNJ	TL		600	18	220	0.220	0.286	42	80
	R6012JNJ	TL		600	12	160	0.300	0.390	28	70
	R6009JNJ	TL		600	9	125	0.450	0.585	22	65
	R6007JNJ	TL		600	7	96	0.600	0.780	17.5	60
	R6006JNJ	TL		600	6	86	0.720	0.936	15.5	58
	R6004JNJ	TL		600	4	60	1.100	1.430	10.5	45
TO-220AB 	☆R6055VNX3	C16	N	600	55	543	0.059	0.071	80*	112
	New R6035VNX3	C16		600	35	348	0.095	0.114	50*	92
	☆R6024VNX3	C16		600	24	246	0.127	0.153	38*	80
(TO-220FM) (TO-220FP) 	R6030JNX	C7 G	N	600	30	95	0.110	0.143	74	100
	R6025JNX	C7 G		600	25	85	0.140	0.182	57	90
	R6020JNX	C7 G		600	20	76	0.180	0.234	45	85
	R6018JNX	C7 G		600	18	72	0.220	0.286	42	80
	R6012JNX	C7 G		600	12	60	0.300	0.390	28	70
	R6009JNX	C7 G		600	9	53	0.450	0.585	22	65
	R6007JNX	C7 G		600	7	46	0.600	0.780	17.5	60
	R6006JNX	C7 G		600	6	43	0.720	0.936	15.5	58
	R6004JNX	C7 G		600	4	35	1.100	1.430	10.5	45
	☆R6055VNX	C7 G		600	23	99	0.059	0.071	80*	112
	New R6035VNX	C7 G		600	17	81	0.095	0.114	50*	92
	☆R6024VNX	C7 G		600	13	70	0.127	0.153	38*	80
	New R6018VNX	C7 G		600	10	61	0.170	0.204	27*	68
	☆R6013VNX	C7 G		600	8	54	0.250	0.300	21*	65
TO-247AD (TO-247) 	R6070JNZ4	C13	N	600	70	770	0.045	0.058	165	135
	R6050JNZ4	C13		600	50	615	0.064	0.083	120	120
	R6042JNZ4	C13		600	42	495	0.080	0.104	100	110
	R6030JNZ4	C13	N	600	30	370	0.110	0.143	74	100
	R6025JNZ4	C13		600	25	306	0.140	0.182	57	90
	R6020JNZ4	C13		600	20	252	0.180	0.234	45	85
	☆R60A4VNZ4	C13	N	600	140	1,388	0.022	0.027	195*	167
	☆R6077VNZ4	C13		600	77	781	0.042	0.051	108*	125
	New R6055VNZ4	C13		600	55	543	0.059	0.071	80*	112
(TO-3PF) 	R6050JNZ	C17	N	600	50	120	0.064	0.083	120	120
	R6030JNZ	C17		600	30	93	0.110	0.143	74	100
	R6025JNZ	C17		600	25	85	0.140	0.182	57	90
	R6020JNZ	C17		600	20	76	0.180	0.234	45	85

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 ◎ "PrestoMOS™" 是ROHM Co., Ltd.的商标或注册商标。
 *V_{GS}=10V

☆：开发中

车载用 MOSFET

车载用 MOSFET																					
Package	Product No.			Polarity (ch)	V _{DSS} (V)	I _D (A)	V _{GS} (V)	R _{DS(on)} (mΩ)										Q _g Typ (nC)	C _{iss} Typ (pF)	Automotive Grade AEC-Q101	
	Part No.	Grade Code	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =2.5V		V _{GS} =1.8V		V _{GS} =1.5V					
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	V _{GS} =5V	V _{DSS} =10V		
 DFN1010-3W 1010 size	New RV8C010UN	HZG	G2CR	N	20	1	±8	—	—	340	470	400	560	470	650	540	810	—	40	YES	
	New RV8L002SN	HZG	G2CR		60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	—	—	—	—	—	15	YES	
	New BSS84X	HZG	G2CR	P	−60	−0.23	±20	2,800	5,300	3,500	6,400	—	—	—	—	—	—	—	35	YES	
 DFN1616-6W 1616 size	RV4C020ZP	HZG	TCR1	P	−20	−2	±8	—	—	180	260	240	340	320	450	400	560	2	80	YES	
	RV4E031RP	HZG	TCR1		−30	−3.1	±20	75	105	108	152	—	—	—	—	—	—	4.8	460	YES	
 SOT-323 (UMT3) [SC-70] 2021 size	New BSS138BWA	HZG	T106	N	60	0.38	±20	500	700	600	840	1,000	4,000	—	—	—	—	—	—	YES	
	☆ BSS138WA	HZG	T106		60	0.31	±20	1,700	2,400	2,100	3,000	3,000	12,000	—	—	—	—	—	—	YES	
	New BSS84WA	HZG	T106	P	−60	−0.21	±20	3,600	5,300	4,300	6,400	—	—	—	—	—	—	—	—	YES	
 SOT-363 (UMT6) [SC-88] 2021 size	UM6K31N	FHA	TCN	N+N	60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	—	—	—	—	—	15 ^{*4}	YES	
 SOT-323T (TUMT3) [SC-113A] 2021 size	RUF025N02	FRA	TL	N	20	2.5	±10	—	—	39	54	49	68	65	91	80	160	5 ^{*2}	370	YES	
	RTF025N03	FRA	TL		30	2.5	±12	—	—	48	67	70	98	—	—	—	—	3.7 ^{*2}	270	YES	
	RTF016N05	FRA	TL		45	1.6	±12	—	—	140	190	200	280	—	—	—	—	2.3 ^{*2}	150	YES	
	RSF015N06	FRA	TL		60	1.5	±20	210	290	240	330	—	—	—	—	—	—	2	110	YES	
 SOT-363T (TUMT6) [SC-113DA] 2021 size	RUL035N02	FRA	TR	N	20	3.5	±10	—	—	31	43	38	53	50	70	66	93	5.7 ^{*2}	460	YES	
	RTL035N03	FRA	TR		30	3.5	±12	—	—	40	56	56	79	—	—	—	—	4.6 ^{*2}	350	YES	
	RTL020P02	FRA	TR	P	−20	−2	±12	—	—	100	135	180	250	—	—	—	—	4.9 ^{*2}	430	YES	
	RRL035P03	FRA	TR		−30	−3.5	±20	36	50	52	72	—	—	—	—	—	8	800	YES		
	RRL025P03	FRA	TR		−30	−2.5	±20	55	75	85	115	—	—	—	—	—	5.2	480	YES		
	RSL020P03	FRA	TR		−30	−2	±20	80	120	125	190	—	—	—	—	—	3.9	350	YES		
 SOT-23 (SST3) 2924 size	RUC002N05	HZG	T116	N	50	0.2	±8	—	—	1,600	2,200	1,700	2,400	—	—	2,000	4,000	—	25	YES	
	☆ BSS670A	HZG	T116		60	0.6	±20	500	650	600	820	—	—	—	—	—	—	—	—	YES	
	BSS138BKA	HZG	T116		60	0.4	±20	500	700	600	840	1,000	4,000	—	—	—	—	—	—	YES	
	RK7002BM	HZG	T116		60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	—	—	—	—	—	15	YES	
	BSS84A	HZG	T116	P	−60	−0.23	±20	2,800	5,300	3,500	6,400	—	—	—	—	—	—	—	—	YES	
 SOT-346T (TSMT3) [SC-96] 2928 size	RUR040N02	HZG	TL	N	20	4	±10	—	—	25	35	33	46	—	—	55	110	8 ^{*2}	680	YES	
	RTR040N03	HZG	TL		30	4	±12	—	—	34	48	47	66	—	—	—	—	5.9 ^{*2}	475	YES	
	RTR025N03	HZG	TL		30	2.5	±12	—	—	66	92	95	133	—	—	—	—	3.3 ^{*2}	220	YES	
	RSR025N03	HZG	TL		30	2.5	±20	50	70	74	105	—	—	—	—	—	—	2.9	165	YES	
	RTR030N05	HZG	TL		45	3	±12	—	—	48	67	68	95	—	—	—	—	6.2 ^{*2}	510	YES	
	RSR025N05	HZG	TL		45	2.5	±20	70	100	95	150	—	—	—	—	—	—	3.6	260	YES	
	RTR025N05	HZG	TL		45	2.5	±12	—	—	95	130	125	175	—	—	—	—	3.2 ^{*2}	250	YES	
	RTR020N05	HZG	TL		45	2	±12	—	—	130	180	180	250	—	—	—	—	2.9 ^{*2}	200	YES	
	RSR030N06	HZG	TL		60	3	±20	60	85	70	100	—	—	—	—	—	—	5	380	YES	
	RSR020N06	HZG	TL		60	2	±20	120	170	140	195	—	—	—	—	—	—	2.7	180	YES	
	RSR010N10	HZG	TL	100	1	±20	370	520	400	560	—	—	—	—	—	—	3.5	140 ^{*4}	YES		
	RTR030P02	HZG	TL	P	−20	−3	±12	—	—	55	75	90	125	—	—	—	—	9.3 ^{*2}	840	YES	
	RTR025P02	HZG	TL		−20	−2.5	±12	—	—	70	95	115	160	—	—	—	—	7 ^{*2}	630	YES	
	RTR020P02	HZG	TL		−20	−2	±12	—	—	100	135	180	250	—	—	—	—	4.9 ^{*2}	430	YES	
	RRR040P03	HZG	TL		−30	−4	±20	32	45	45	63	—	—	—	—	—	—	10.5	1,000	YES	
	RRR030P03	HZG	TL		−30	−3	±20	55	75	85	115	—	—	—	—	—	—	5.2	480	YES	
	RSR025P03	HZG	TL		−30	−2.5	±20	70	98	100	140	—	—	—	—	—	—	5.4	460	YES	
	RSR020P05	HZG	TL		−45	−2	±20	130	190	180	260	—	—	—	—	—	—	4.5 ^{*2}	500	YES	
	RSR015P06	HZG	TL		−60	−1.5	±20	200	280	240	340	—	—	—	—	—	—	10 ^{*1}	500	YES	
	RUQ050N02	HZG	TR		N	20	5	±10	—	—	22	30	27	38	—	—	40	80	12 ^{*2}	900	YES
	RTQ045N03	HZG	TR	30		4.5	±12	—	—	30	43	42	60	—	—	—	—	7.6 ^{*2}	540	YES	
	RSQ045N03	HZG	TR	30		4.5	±20	27	38	36	51	—	—	—	—	—	—	6.8	520	YES	
	RSQ035N03	HZG	TR	30		3.5	±20	44	62	60	84	—	—	—	—	—	—	5.3	290	YES	
	RTQ035N03	HZG	TR	30		3.5	±12	—	—	38	54	55	77	—	—	—	—	4.6 ^{*2}	285	YES	
	RSQ020N03	HZG	TR	30		2	±20	96	134	148	207	—	—	—	—	—	—	2.2	110	YES	
	RVQ040N05	HZG	TR	45		4	±21	38	53	47	66	—	—	—	—	—	—	6.3	530	YES	
	RTQ020N05	HZG	TR	45		2	±12	—	—	140	190	200	280	—	—	—	—	—	2.3 ^{*2}	150	YES
	RSQ035N06	HZG	TR	60		3.5	±20	50	70	58	82	—	—	—	—	—	—	6.5	430	YES	
	RSQ015N06	HZG	TR	60		1.5	±20	210	290	240	330	—	—	—	—	—	—	2	110	YES	
 SOT-457T (TSMT6) [SC-95] 2928 size	RSQ030N08	HZG	TR	N+N	80	3.0	±20	93	131	100	140	—	—	—	—	—	—	6.5 ^{*1}	550	YES	
	QS6K1	FRA	TR		30	1	±12	—	—	170	238	260	364	—	—	—	—	1.7 ^{*2}	77	YES	
	QS6K21	FRA	TR		45	1	±12	—	—	300	420	415	585	—	—	—	—	1.5 ^{*2}	95	YES	
	RTQ035P02	HZG	TR		−20	−3.5	±12	—	—	50	65	80	100	—	—	—	—	10.5 ^{*2}	1,200	YES	
	RTQ025P02	HZG	TR		−20	−2.5	±12	—	—	72	100	140	190	—	—	—	—	6.4 ^{*2}	580	YES	
	RRQ045P03	HZG	TR		−30	−4.5	±20	25	35	34	48	—	—	—	—	—	—	14	1,350	YES	
	RSQ035P03	HZG	TR		−30	−3.5	±20	45	65	65	90	—	—	—	—	—	—	9.2	780	YES	
	RRQ030P03	HZG	TR		−30	−3	±20	55	75	85	115	—	—	—	—	—	—	5.2	480	YES	
	RSQ025P03	HZG	TR		−30	−2.5	±20	80	110	120	165	—	—	—	—	—	—	4.4	320	YES	
	RSQ015P10	HZG	TR		−100	−1.5	±20	350	470	380	510	—	—	—	—	—	—	17	950 ^{*4}	YES	

注1：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。
 注2：*1 V_{GS}=10V *2 V_{GS}=4.5V *3 V_{GS}=4V *4 V_{GS}=25V
 ☆：开发中

车载用 MOSFET

车载用 MOSFET																						
Package	Product No.			Polarity (ch)	V _{DSS} (V)	I _D (A)	V _{GS} (V)	R _{DS (on)} (mΩ)										Qg Typ (nC)		Ciss Typ (pF)		Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =2.5V		V _{GS} =1.8V		V _{GS} =1.5V		V _{GS} =5V	V _{DS} =10V			
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max					
 (TSMT8) 3028 size	RQ1C075UN	FRA	TR	N	20	7.5	±10	—	—	11	16	14	20	—	—	20	40	18*1	1,400	YES		
	QS8K2	FRA	TR	N+N	30	3.5	±12	—	—	38	54	55	77	—	—	—	—	4.6*1	285	YES		
	RQ1A070ZP	FRA	TR	P	—12	—7	±10	—	—	8	12	11	16	—	—	19	38	58*1	7,400*3	YES		
	RQ1E070RP	FRA	TR		—30	—7	±20	12	17	17	24	—	—	—	—	26	2,700	YES				
	RQ1E050RP	FRA	TR		—30	—5	±20	22	31	32	45	—	—	—	—	13	1,300	YES				
	QS8J4	FRA	TR	P+P	—30	—4	±20	40	56	55	77	—	—	—	—	—	8.4	800	YES			
	QS8M51	FRA	TR	N+P	100	2	±20	240	325	250	340	—	—	—	—	—	4.7	290*2	YES			
				—100	—1.5	±20	350	470	380	510	—	—	—	—	—	17	950*2					

注1：()内表示ROHM封装。
注2：*1 V_{GS}=4.5V *2 V_{DSS}=25V *3 V_{GS}=6V

车载用 功率MOSFET

车载用 功率MOSFET																
Package	Product No.			Polarity (ch)	V _{DSS} (V)	I _D (A)	V _{GS} (V)	R _{DS (on)} (mΩ)						Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V _{GS} =10V		V _{GS} =4.5V		V _{GS} =4.0V		V _{GS} =5V	V _{DS} =10V	
								Typ	Max	Typ	Max	Typ	Max			
 (SOP8) 5060 size	RSS130N03	HZG	TB	N	30	13	±20	5.9	8.3	7.4	10.4	—	—	25	2,000	YES
	RSS100N03	HZG	TB		30	10	±20	9.5	13.3	12.5	17.5	—	—	14	1,070	YES
	RSS095N05	HZG	TB		45	9.5	±20	11	16	14	20	—	—	18.9	1,830	YES
	RSS070N05	HZG	TB		45	7	±20	18	25	23	32	—	—	12	1,000	YES
	RSS065N06	HZG	TB		60	6.5	±20	24	37	28	44	—	—	11	900	YES
	SP8K3	HZG	TB	N+N	30	7	±20	17	24	23	33	—	—	8.4	600	YES
	SP8K2	HZG	TB		30	6	±20	21	30	30	42	—	—	7.2	520	YES
	SP8K24	HZG	TB		45	6	±20	18	25	24	34	—	—	15.4	1,400	YES
	SP8K22	HZG	TB		45	4.5	±20	33	46	41	57	—	—	6.8	550	YES
	SP8K33	HZG	TB		60	5	±20	34	48	38	54	—	—	8	620	YES
	SP8K32	HZG	TB		60	4.5	±20	46	65	52	73	—	—	7	500	YES
	SP8K31	HZG	TB		60	3.5	±20	85	120	100	140	—	—	3.7	250	YES
	SP8K41	HZG	TB		80	3.4	±20	90	130	110	150	120	160	6.6	600	YES
	SP8K52	HZG	TB		100	3	±20	120	170	130	180	—	—	8.5	610 ³	YES
	RRS140P03	HZG	TB		P	−30	−14	±20	5	7	6.7	9.4	—	—	80	8,000
	RRS100P03	HZG	TB	−30		−10	±20	9	12.6	12.5	17.5	—	—	39	3,600	YES
	RRS090P03	HZG	TB	−30		−9	±20	11	15.4	15	21	—	—	30	3,000	YES
	RRS050P03	HZG	TB	−30		−5	±20	36	50	52	72	—	—	9.2	850	YES
	RSS070P05	HZG	TB	−45		−7	±20	19	27	25	35	—	—	34	4,100	YES
	RSS060P05	HZG	TB	P+P	−45	−6	±20	26	36	35	49	—	—	23	2,700	YES
	SP8J66	HZG	TB		−30	−9	±20	13.5	18.5	17.5	23.6	—	—	35	3,000	YES
	SP8M4	HZG	TB		30	9	±20	12	18	16	24	—	—	15	1,190	YES
					−30	−7	±20	20	28	25	35	—	—	25	2,600	YES
	SP8M5	HZG	TB		30	6	±20	21	30	30	42	—	—	7.2	520	YES
					−30	−7	±20	20	28	25	35	—	—	25	2,600	
	SP8M3	HZG	TB		30	5	±20	36	51	52	73	—	—	3.9	230	YES
					−30	−4.5	±20	40	56	57	80	—	—	8.5	850	YES
	SP8M6	HZG	TB		30	5	±20	36	51	52	73	—	—	3.9	230	YES
					−30	−3.5	±20	65	90	100	140	—	—	5.5	490	YES
	SP8M21	HZG	TB		45	6	±20	18	25	24	34	—	—	15.4	1,400	YES
					−45	−4	±20	33	46	43	60	—	—	20	2,400	
	SP8M24	HZG	TB		45	4.5	±20	33	46	41	57	—	—	6.8	550	YES
					−45	−3.5	±20	45	63	60	84	—	—	13	1,700	
	SP8M31	HZG	TB		60	4.5	±20	46	65	52	73	55	77	7	500	YES
					−60	−4.5	±20	50	70	55	80	60	85	40	2,500	
	SP8M41	HZG	TB		80	3.4	±20	90	130	110	150	—	—	6.6	600	YES
					−80	−2.6	±20	165	240	220	300	—	—	8.2	1,000	
	SP8M51	HZG	TB	100	3	±20	120	170	130	180	—	—	8.5	610 ³	YES	
				−100	−2.5	±20	210	290	230	320	—	—	12.5	1,550 ³		

注1：()内表示ROHM封装。
注2：*1 V_{GS}=10V *2 V_{GS}=4V *3 V_{GS}=25V

车载用 功率MOSFET

车载用 功率MOSFET

Package	Product No.			Polarity (ch)	V _{DSS} (V)	I _D (A)	V _{GS} (V)	R _{DS (on)} (mΩ)				Q _g Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V _{GS} =10V		V _{GS} =4.5V				
								Typ	Max	Typ	Max	V _{GS} =10V	V _{DS} =10V	
 TO-252 (DPAK)	RD3H200SN	FRA	TL	N	45	20	±20	20	28	25	35	12*3	950	YES
	RD3L220SN	FRA	TL		60	22	±20	18	26	21	30	30	1,500	YES
	RD3L150SN	FRA	TL		60	15	±20	28	40	33	47	18	930	YES
	RD3L080SN	FRA	TL		60	8	±20	57	80	70	98	9.4	380	YES
	RD3L050SN	FRA	TL		60	5	±20	78	109	94	131	8	290	YES
	RD3P200SN	FRA	TL		100	20	±20	33	46	36*2	50*2	55	2,100*1	YES
	RD3P175SN	FRA	TL		100	17.5	±20	75	105	80	112	24	950*1	YES
	RD3P100SN	FRA	TL		100	10	±20	95	133	100	140	18	700*1	YES
	RD3P050SN	FRA	TL		100	5	±20	135	190	142	200	14	530*1	YES
	RD3S100AA	FRA	TL		190	10	±20	130	182	136*2	190*2	52	2,000	YES
	RD3U080AA	FRA	TL		250	8	±30	225	300	—	—	25	1,440*1	YES
	RD3U041AA	FRA	TL		250	4	±30	930	1,300	—	—	8.5	350*1	YES
	R5205PND3	FRA	TL		525	5	±25	1,300	1,600	—	—	10.8	320*1	YES
	R6006PND3	FRA	TL		600	6	±30	900	1,200	—	—	15	460*1	YES
	R6004PND3	FRA	TL		600	4	±25	1,400	1,800	—	—	11	280*1	YES
	R8007AND3	FRA	TL		800	7	±30	1,200	1,600	—	—	28	850	YES
	R8002CND3	FRA	TL		800	2	±30	3,300	4,300	—	—	12.1	240*1	YES
	R8001CND3	FRA	TL		800	1	±30	6,700	8,700	—	—	7.2	60*1	YES
	RD3H160SP	FRA	TL	P	-45	-16	±20	35	50	45	63	16*3	2,000	YES
	RD3H080SP	FRA	TL		-45	-8	±20	65	91	95	133	9*3	1,000	YES
	RD3H045SP	FRA	TL		-45	-4.5	±20	110	155	160	225	12*3	550	YES
	RD3L140SP	FRA	TL		-60	-14	±20	60	84	73	103	27	1,900	YES
	RD3P130SP	FRA	TL		-100	-13	±20	135	200	150	220	40	2,400*1	YES
 TO-263S (LPTS) [SC-83] (D2PAK)	RSJ451N04	FRG	TL	N	40	45	±20	9.5	13.5	—	—	43	2,400*1	YES
	RSJ400N06	FRG	TL		60	40	±20	11	16	—	—	52	2,400	YES
	RSJ400N10	FRG	TL		100	40	±20	19	27	21*2	30*2	90	3,600*1	YES
	RSJ301N10	FRG	TL		100	30	±20	33	46	36*2	50*2	60	2,100*1	YES
	RJ1U330AA	FRG	TL		250	33	±30	77	105	—	—	80	4,500*1	YES
	R6020PNJ	FRA	TL		600	20	±30	190	250	—	—	65	2,040*1	YES
	R8008ANJ	FRG	TL		800	8	±30	790	1,030	—	—	38	1,100*1	YES
	R8005ANJ	FRG	TL		800	5	±30	1,600	2,100	—	—	20	500*1	YES
	R8002ANJ	FRG	TL		800	2	±30	3,300	4,300	—	—	13	250*1	YES
	RSJ250P10	FRG	TL	P	-100	-25	±20	45	63	48	67	60*3	8,000*1	YES

注1：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号，< >内表示GENERAL编号。
 注2：*1 V_{DS}=25V *2 V_{GS}=4V *3 V_{GS}=5V

双极晶体管

一般放大用 双极晶体管(扁平引线型)一览表

Package	SOT-723 (VMT3) [SC-105AA] 1212 size		SOT-416FL (EMT3F) [SC-89] 1616 size		SOT-323FL (UMT3F) [SC-85] 2021 size		V _{CEO} (V)	I _c (A)	h _{FE} *2
	 *1 P _D =0.15W		 *1 P _D =0.15W		 *1 P _D =0.2W				
	PNP	NPN	PNP	NPN	PNP	NPN			
Application									
General Purpose Amplification	2SAR522M	2SCR522M	2SAR522EB	2SCR522EB	2SAR522UB	2SCR522UB	20	0.2	120 to 560
	2SAR523M	2SCR523M	2SAR523EB	2SCR523EB	2SAR523UB	2SCR523UB	50	0.1	120 to 560
	2SA2029	2SC5658	2SA1774EB	2SC4617EB	2SA1576UB	2SC4081UB	50	0.15	120 to 560
Low V _{CE} (sat)	2SA2030	2SC5663					12	0.5	270 to 680
Driver		2SD2696	2SAR502EB	2SCR502EB	2SAR502UB	2SCR502UB	30	0.4	270 to 680
							30	0.5	200 to 500

注1: *1 为安装于推荐焊盘时。
 注2: *2 关于h_{FE}, 请参照规格说明书。
 注3: PNP型的(一)符号省略。
 注4: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

一般放大用 双极晶体管(扁平引线型)

Package	Application	Product No.							Polarity (ch)	P _D *1 (W)	V _{CEO} (V)	I _C (A)	h _{FE} *2	Automotive Grade AEC-Q101		
		Part No.	Grade Code		Packing code	h _{FE} *2 Code										
			General	Automotive												
 SOT-723 (VMT3) [SC-105AA] 1212 size	General Purpose Amplification	2SAR522M	*	—	T2L				PNP	0.15	-20	-0.2	120 to 560		—	
		2SAR523M		—	T2L					0.15	-50	-0.1	120 to 560		—	
		2SA2029		FHA	T2L	Q	R	S		0.15	-50	-0.15	120 to 560	S: No Recommended	YES	
	Low V _{CE} (sat)	2SA2030		—	T2L					NPN	0.15	-12	-0.5	270 to 680		—
		2SCR522M		—	T2L				0.15		20	0.2	120 to 560		—	
		2SCR523M		—	T2L				0.15		50	0.1	120 to 560		—	
	General Purpose Amplification	2SC5658		FHA	T2L	Q	R	S		NPN	0.15	50	0.15	120 to 560	S: No Recommended	YES
		2SC5663		—	T2L				0.15		12	0.5	270 to 680		—	
		Low V _{CE} (sat)		2SD2696	—	T2L					0.15	30	0.4	270 to 680		—
	 SOT-416FL (EMT3F) [SC-89] 1616 size	General Purpose Amplification	2SAR522EB	*	—	TL				PNP	0.15	-20	-0.2	120 to 560		—
2SAR523EB			—		TL				0.15		-50	-0.1	120 to 560		—	
2SA1774EB			—		TL	Q	R	S	0.15		-50	-0.15	120 to 560	S: No Recommended	—	
Driver		2SAR502EB	—		TL					NPN	0.15	-30	-0.5	200 to 500		—
		2SCR522EB	—		TL				0.15		20	0.2	120 to 560		—	
		2SCR523EB	—		TL				0.15		50	0.1	120 to 560		—	
General Purpose Amplification		2SC4617EB	—		TL	Q	R	S		NPN	0.15	50	0.15	120 to 560	S: No Recommended	—
		Driver	2SCR502EB		—	TL					0.15	30	0.5	200 to 500		—
			General Purpose Amplification		2SAR522UB	*	—	TL					PNP	0.2	-20	-0.2
2SAR523UB		—		TL					0.2	-50	-0.1	120 to 560			—	
2SA1576UB	—	TL		Q	R		S	0.2	-50	-0.15	120 to 560	S: No Recommended		—		
Driver	2SAR502UB	—	TL						NPN	0.2	-30	-0.5	200 to 500		—	
	2SCR522UB	—	TL					0.2		20	0.2	120 to 560		—		
	2SCR523UB	—	TL					0.2		50	0.1	120 to 560		—		
General Purpose Amplification	2SC4081UB	—	TL	Q	R		S		NPN	0.2	50	0.15	120 to 560	S: No Recommended	—	
	Driver	2SCR502UB	—	TL						0.2	30	0.5	200 to 500		—	

注1: *—般产品的性能代码为空白。
 注2: *1 为安装于推荐焊盘时。
 注3: *2 的h_{FE}表示N: 56~120, P: 82~180, Q: 120~270, R: 180~390, S: 270~560。详情请参考规格书等。
 注4: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

一般放大用 双极晶体管(鸥翼引线型)一览表

Package	SOT-416 (EMT3) [SC-75A] 1616 size		SOT-323 (UMT3) [SC-70] 2021 size		SOT-346 (SMT3) [SC-59] 2928 size		SOT-23 (SST3) 2924 size		V _{CEO} (V)	I _C (A)	h _{FE} *2
	 *1	 *1	 *1	 *1							
	P _D =0.15W		P _D =0.2W		P _D =0.2W		P _D =0.2W				
Application	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
General Purpose Amplification	2SA1774	2SC4617	2SA1576U3	2SC4081U3	2SA1037AK	2SC2412K			50	0.15	120 to 560
	2SA2018	2SC5585			2SA2119K				12	0.5	270 to 680
Low V _{CE} (sat)			2SB1689	2SD2652					12	1.5	270 to 680
					2SB1690K	2SD2653K			12	2	270 to 680
						2SD1757K			15	0.5	120 to 560
					2SB1590K				15	1	120 to 390
						2SD2444K			15	1	180 to 390
			2SB1694	2SD2656					30	1	270 to 680
					2SB1695K	2SD2657K			30	1.5	270 to 680
			2SAR502U3	2SCR502U3					30	0.5	200 to 500
Driver			2SA1577	2SC4097	2SA1036K	2SC2411K			32	0.5	120 to 390
					2SB1197K	2SD1781K			32	0.8	120 to 390
				2SD1949		2SD1484K			50	0.5	120 to 390
					2SB1198K	2SD1782K			80	0.5	120 to 390
High Speed Switching			2SA2088U3	2SC5876U3					60	0.5	120 to 270 120 to 390
High Voltage			2SA1579U3	2SC4102U3	2SA1514K	2SC3906K	2SARA41C	2SCRC41C	120	0.05	180 to 560
						2SC4061K			300	0.1	56 to 120

注1: *1 为安装于推荐焊盘时。
 注2: *2 关于h_{FE}, 请参照规格说明书。
 注3: PNP型的(一)符号省略。
 注4: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

一般放大用 双极晶体管(鸥翼引线型)															
Package	Application	Part No.	Product No.						Polarity (ch)	P _D *1 (W)	V _{CEO} (V)	I _C (A)	h _{FE} *2		Automotive Grade AEC-Q101
			Grade Code		Packing code	h _{FE} *2 Code									
			General	Automotive											
 SOT-416 (EMT3) [SC-75A] 1616 size	General Purpose Amplification	2SA1774	*	FRA	TL	Q	R	S	PNP	0.15	-50	-0.15	120 to 560	S: No Recommended	YES
	Low V _{CE} (sat)	2SA2018		—	TL					0.15	-12	-0.5	270 to 680		—
	General Purpose Amplification	2SC4617		FRA	TL	Q	R	S	NPN	0.15	50	0.15	120 to 560	S: No Recommended	YES
	Low V _{CE} (sat)	2SC5585		—	TL					0.15	12	0.5	270 to 680		—
 SOT-323 (UMT3) [SC-70] 2021 size	General Purpose Amplification	2SA1576U3	*	HZG	T106	Q	R	S	PNP	0.2	-50	-0.15	120 to 560	S: No Recommended	YES
	Low V _{CE} (sat)	2SB1689		—	T106					0.2	-12	-1.5	270 to 680		—
		2SB1694		—	T106					0.2	-30	-1	270 to 680		—
		2SAR502U3		HZG	T106					0.2	-30	-0.5	200 to 500		YES
	2SA1577	—		T106	Q	R		0.2		-32	-0.5	120 to 390		—	
	High Speed Switching	2SA2088U3		HZG	T106	Q				0.2	-60	-0.5	120 to 270		YES
	High Voltage	2SA1579U3		HZG	T106	R	S			0.2	-120	-0.05	180 to 560		YES
	General Purpose Amplification	2SC4081U3		HZG	T106	Q	R	S	NPN	0.2	50	0.15	120 to 560	S: No Recommended	YES
	Low V _{CE} (sat)	2SD2652		—	T106					0.2	12	1.5	270 to 680		—
		2SD2656		—	T106					0.2	30	1	270 to 680		—
		2SCR502U3		HZG	T106					0.2	30	0.5	200 to 500		YES
	Driver	2SC4097		—	T106	Q	R			0.2	32	0.5	120 to 390		—
		2SD1949		—	T106	Q	R			0.2	50	0.5	120 to 390		—
	High speed Switching	2SC5876U3		HZG	T106	Q	R			0.2	60	0.5	120 to 390		YES
	High Voltage	2SC4102U3		HZG	T106	R	S			0.2	120	0.05	180 to 560		YES
 SOT-346 (SMT3) [SC-59] 2928 size	General Purpose Amplification	2SA1037AK	*	—	T146	Q	R	S	PNP	0.2	-50	-0.15	120 to 560	S: No Recommended	—
	Low V _{CE} (sat)	2SA2119K		—	T146					0.2	-12	-0.5	270 to 680		—
		2SB1690K		—	T146					0.2	-12	-2	270 to 680		—
		2SB1590K		—	T146	Q				0.2	-15	-1	120 to 390		—
		2SB1695K		—	T146					0.2	-30	-1.5	270 to 680		—
		2SA1036K		—	T146	Q	R			0.2	-32	-0.5	120 to 390		—
	Driver	2SB1197K		—	T146	Q	R			0.2	-32	-0.8	120 to 390		—
		2SB1198K		—	T146	Q	R			0.2	-80	-0.5	120 to 390		—
		2SA1514K		—	T146	R	S			0.2	-120	-0.05	180 to 560		—
	General Purpose Amplification	2SC2412K		—	T146	Q	R	S	NPN	0.2	50	0.15	120 to 560	S: No Recommended	—
	Low V _{CE} (sat)	2SD2653K		—	T146					0.2	12	2	270 to 680		—
		2SD1757K		—	T146	Q	R	S		0.2	15	0.5	120 to 560		—
		2SD2444K		—	T146	R				0.2	15	1	180 to 390		—
		2SD2657K		—	T146					0.2	30	1.5	270 to 680		—
		2SC2411K		—	T146	Q	R			0.2	32	0.5	120 to 390		—
	Driver	2SD1781K		—	T146	Q	R			0.2	32	0.8	120 to 390		—
		2SD1484K		—	T146	Q	R			0.2	50	0.5	120 to 390		—
		2SD1782K		—	T146	Q	R			0.2	80	0.5	120 to 390		—
	High Voltage	2SC3906K		—	T146	R	S			0.2	120	0.05	180 to 560		—
		2SC4061K		—	T146	N				0.2	300	0.1	56 to 120		—
 SOT-23 (SST3) 2924 size	High Voltage	2SARA41C	*	HZG	T116	R	S		PNP	0.2	-120	-0.05	180 to 560		YES
		2SCRC41C		HZG	T116	R	S		NPN	0.2	120	0.05	180 to 560		YES

注1: *一般产品的性能代码为空白。
 注2: *1 为安装于推荐焊盘时。
 注3: *2 的h_{FE}表示N: 56~120, P: 82~180, Q: 120~270, R: 180~390, S: 270~560。详情请参考规格书等。
 注4: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

双极晶体管

双极晶体管(日本以外型号)一览表							
Package	SOT-323 (UMT3) [SC-70] 2021 size		SOT-23 (SST3) 2924 size		V _{CEO} (V)	I _C (A)	h _{FE} *2
	 *1 P _D =0.15W	 *1 P _D =0.2W					
Polarity	PNP	NPN	PNP	NPN			
Application							
General Purpose Amplification	BC858BW	BC848BW	BC858B	BC848B	30	0.1	200 to 450
		☆BC847BU3		BC847B	45	0.1	200 to 450
	☆BC857BU3		BC857B		45	0.1	210 to 480
			☆BC857C	☆BC847C	45	0.15	420 to 800
				☆BC846B	65	0.12	200 to 450
			BC856B		65	0.1	220 to 475
Driver			BSS63A	BSS64A	100	0.1	30 or more
			BSS5130A	BSS4130A	30	1	270 to 680
			BC807-16	BC817-16	45	0.8	100 to 250
			BC807-25	BC817-25	45	0.8	160 to 400
			BC807-40	BC817-40	45	0.8	250 to 600
			BCX17	BCX19	45	0.5	100 to 600
Switching			SSTA56	SSTA06	80	0.5	100 or more
	UMT3906	UMT3904	SST3906	SST3904	40	0.2	100 to 300
	UMT4403U3	UMT4401U3	SST4403	SST4401	40	0.6	100 to 300
		UM2222AU3		SST2222A	40	0.6	100 to 300
	UMT2907A		SST2907A		60	0.6	100 to 300
Darlington*3				SSTA28	80 (V _{CEs})	0.3	10,000 or more

注1: *1 为安装于推荐焊盘时。
 注2: *2 关于h_{FE}, 请参照规格说明书。
 注3: *3 关于内部电路, 请参照规格说明书。
 注4: PNP型的(-)符号省略。
 注5: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。
 ☆: 开发中

双极晶体管(日本以外型号)										
Package	Application	Product No.			Polarity (ch)	P _D *1 (W)	V _{CE0} (V)	I _C (A)	h _{FE} *2	Automotive Grade AEC-Q101
		Part No.	General	Automotive						
 SOT-323 (UMT3) [SC-70] 2021 size	General Purpose Amplification	BC858BW	—	T106	PNP	0.15	-30	-0.1	200 to 450	—
		☆BC857BU3	HZG	T106		0.15	-45	-0.1	210 to 480	YES
		UMT3906	—	T106		0.15	-40	-0.6	100 to 300	—
	Switching	UMT4403U3	HZG	T106		0.15	-40	-0.6	100 to 300	YES
		UMT2907A	—	T106		0.15	-60	-0.6	100 to 300	—
	General Purpose Amplification	BC848BW	—	T106	NPN	0.15	30	0.1	200 to 450	—
		☆BC847BU3	HZG	T106		0.15	45	0.1	200 to 450	YES
		UMT3904	—	T106		0.15	40	0.2	100 to 300	—
		UMT4401U3	HZG	T106		0.15	40	0.6	100 to 300	YES
		UM2222AU3	HZG	T106		0.15	40	0.6	100 to 300	YES
 SOT-23 (SST3) 2924 size	General Purpose Amplification	BC858B	HZG	T116	PNP	0.2	-30	-0.1	200 to 450	YES
		BC857B	HZG	T116		0.2	-45	-0.1	200 to 480	YES
		☆BC857C	HZG	T116		0.2	-45	-0.15	420 to 800	YES
		BC856B	HZG	T116		0.2	-65	-0.1	220 to 475	YES
		BSS63A	HZG	T116		0.2	-100	-0.1	30 or more	YES
	Driver	BSS5130A	HZG	T116		0.2	-30	-1	270 to 680	YES
		BCX17	HZG	T116		0.2	-45	-0.5	100 to 600	YES
		BC807-16	HZG	T116		0.2	-45	-0.8	100 to 250	YES
		BC807-25	HZG	T116		0.2	-45	-0.8	160 to 400	YES
		BC807-40	HZG	T116		0.2	-45	-0.8	250 to 600	YES
		SSTA56	HZG	T116		0.2	-80	-0.5	100 or more	YES
		SST4403	HZG	T116		0.2	-40	-0.6	100 to 300	YES
	Switching	SST2907A	HZG	T116		0.2	-60	-0.6	100 to 300	YES
		SST3906	HZG	T116		0.2	-40	-0.2	100 to 300	YES
	General Purpose Amplification	BC848B	HZG	T116	NPN	0.2	30	0.1	200 to 450	YES
		BC847B	HZG	T116		0.2	45	0.1	200 to 450	YES
		☆BC847C	HZG	T116		0.2	45	0.15	420 to 800	YES
		☆BC846B	HZG	T116		0.2	45	0.12	200 to 450	YES
		BSS64A	HZG	T116		0.2	100	0.1	30 or more	YES
	Driver	BSS4130A	HZG	T116		0.2	30	1	270 to 680	YES
		BCX19	HZG	T116		0.2	45	0.5	100 to 600	YES
		BC817-16	HZG	T116		0.2	45	0.8	100 to 250	YES
		BC817-25	HZG	T116		0.2	45	0.8	160 to 400	YES
		BC817-40	HZG	T116		0.2	45	0.8	250 to 600	YES
		SSTA06	HZG	T116		0.2	80	0.5	100 or more	YES
		SST3904	HZG	T116		0.2	40	0.2	100 to 300	YES
	Switching	SST4401	HZG	T116		0.2	40	0.6	100 to 300	YES
		SST2222A	HZG	T116		0.2	40	0.6	100 to 300	YES
	Darlington*3	SSTA28	—	T116		0.2	80 (V _{CEs})	0.3	10,000 or more	—

注1: *一般产品的性能代码为空白。
 注2: *1 为安装于推荐焊盘时。
 注3: *2 关于h_{FE}, 请参照规格说明书。
 注4: *3 关于内部电路, 请参照规格说明书。
 注5: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。
 ☆: 开发中

高 h_{FE} 、静噪、达林顿 双极晶体管一览表

Package Polarity Application	SOT-723 (VMT3) [SC-105AA] 1212 size		SOT-416 (EMT3) [SC-75A] 1616 size		SOT-323 (UMT3) [SC-70] 2021 size		SOT-346 (SMT3) [SC-59] 2928 size		V _{CEO} (V)	I _C (A)	h _{FE} *2
	 *1 P _D =0.15W		 *1 P _D =0.15W		 *1 P _D =0.2W		 *1 P _D =0.2W				
	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
High h _{FE} · Muting								2SD2704K	25 (V _{EBO})	0.3	820 to 2,700
								2SD2114K	20	0.5	820 to 2,700
		2SD2707		2SD2654		2SD2351		2SD2226K	50	0.15	820 to 2,700
Darlington*3								2SD2142K	30	0.3	5,000 or more
							2SB852K	2SD1383K	32 (V _{CES})	0.3	5,000 or more

注1：*1 为安装于推荐焊盘时。
 注2：*2 关于 h_{FE} ，请参照规格说明书。
 注3：*3 关于内部电路，请参照规格说明书。
 注4：PNP型的(—)符号省略。
 注5：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

高 h_{FE} 、静噪、达林顿 双极晶体管

Package	Application	Product No.						Polarity (ch)	P _D *1 (W)	V _{CEO} (V)	I _C (A)	h _{FE} *2		Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code	h _{FE} *2 Code								
			General	Automotive										
 SOT-723 (VMT3) [SC-105AA] 1212 size	High h _{FE} · Muting	2SD2707	★	—	T2L	V	W	NPN	0.15	50	0.15	820 to 2,700	W: Not Recommended	—
 SOT-416 (EMT3) [SC-75A] 1616 size	High h _{FE} · Muting	2SD2654	★	—	TL	V	W	NPN	0.15	50	0.15	820 to 2,700		—
 SOT-323 (UMT3) [SC-70] 2021 size	High h _{FE} · Muting	2SD2351	★	—	T106	V	W	NPN	0.2	50	0.15	820 to 2700		—
 SOT-346 (SMT3HP) [SC-59] 2928 size	Darlington*3	2SB852K	★	—	T146	B		PNP	0.2	−32 (V _{CES})	−0.3	5,000 or more		—
	High h _{FE} · Muting	2SD2704K		—	T146			NPN	0.2	25 (V _{EBO})	0.3	820 to 2,700		—
		2SD2114K		—	T146	V	W		0.2	20	0.5	820 to 2,700		—
		2SD2226K		—	T146	V	W		0.2	50	0.15	820 to 2,700		—
		2SD2142K		—	T146				0.2	30	0.3	5,000 or more		—
	Darlington*3	2SD1383K		—	T146	B			0.2	32 (V _{CES})	0.3	5,000 or more		—

注1：*一般产品的性能代码为空白。
 注2：*1 为安装于推荐焊盘时。
 注3：*2 的 h_{FE} 表示B：5,000以上，V：820~1,800，W：1,200~2,700。详情请参考规格书等。
 注4：*3 关于内部电路，请参照规格说明书。
 注5：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

双极晶体管

高频用 双极晶体管一览表											
Package Polarity Application	SOT-723 (VMT3) [SC-105AA] 1212 size		SOT-416 (EMT3) [SC-75A] 1616 size		SOT-323 (UMT3) [SC-70] 2021 size		SOT-346 (SMT3) [SC-59] 2928 size		V _{CEO} (V)	I _C (A)	h _{FE} *2
	 *1 P _D =0.15W		 *1 P _D =0.15W		 *1 P _D =0.2W		 *1 P _D =0.2W				
	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
High Frequency				2SC4618		2SC4098			25	0.05	82 to 180 (f _T =300MHz)
						2SC4774		2SC4713K	6	0.05	180 to 560 (f _T =800MHz)
		2SC5661		2SC4725		2SC4082		2SC3837K	20	0.05	82 to 180 (f _T =1,500MHz)
		2SC5662		2SC4726		2SC4083		2SC3838K	11	0.05	56 to 180 (f _T =3,200MHz)

注1: *1 为安装于推荐焊盘时。 注2: *2 关于h_{FE}, 请参照规格说明书。
注3: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

高频用 双极晶体管														
Package	Application	Product No.						Polarity (ch)	P _o *1 (W)	V _{CEO} (V)	I _c (A)	h _{FE} *2	f _T (MHz)	Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code	h _{FE} *2 Code								
			General	Automotive										
 SOT-723 (VMT3) [SC-105AA] 1212 size	High Frequency	2SC5661	*	—	T2L	P		NPN	0.15	20	0.05	82 to 180	1,500	—
		2SC5662		—	T2L	P			0.15	11	0.05	56 to 180	3,200	—
 SOT-416 (EMT3) [SC-75A] 1616 size	High Frequency	2SC4618	*	—	TL	N	P	NPN	0.15	25	0.05	82 to 180	300	—
		2SC4725		—	TL	P			0.15	20	0.05	82 to 180	1,500	—
		2SC4726		—	TL	N	P		0.15	11	0.05	56 to 180	3,200	—
 SOT-323 (UMT3) [SC-70] 2021 size	High Frequency	2SC4098	*	—	T106	P		NPN	0.2	25	0.05	82 to 180	300	—
		2SC4774		—	T106	R	S		0.2	6	0.05	180 to 560	800	—
		2SC4082		—	T106	P			0.2	20	0.05	82 to 180	1,500	—
		2SC4083		—	T106	N	P		0.2	11	0.05	56 to 180	3,200	—
 SOT-346 (SMT3HP) [SC-59] 2928 size	High Frequency	2SC4713K	*	—	T146	R	S	NPN	0.2	6	0.05	180 to 560	800	—
		2SC3837K		—	T146	P			0.2	20	0.05	82 to 180	1,500	—
		2SC3838K		—	T146	N	P		0.2	11	0.05	56 to 180	3,200	—

注1: *— 一般产品的性能代码为空白。 注2: *1 为安装于推荐焊盘时。
注3: *2 的h_{FE}表示N: 56~120, P: 82~180, R: 180~390, S: 270~560。详情请参考规格书等。
注4: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

低饱和/驱动器用 双极晶体管一览表								
Package Polarity Application	SOT-323T/SOT-363T (TUMT3/TUMT6) [SC-113A/SC-113DA] 2021 size		SOT-346T/SOT-457T (TSMT3/TSMT6) [SC-96/SC-95] 2928 size		V _{CEO} (V)	I _C (A)	h _{FE} *2	
	  *1 P _D =0.4W		  *1 P _D =0.5W					
	PNP	NPN	PNP	NPN				
Low V _{CE} (sat)	2SB1732	2SD2702	2SB1709	2SD2674	12	1.5	270 to 680	
	2SB1730	2SD2700	2SB1690	2SD2653	12	2	270 to 680	
			2SB1705	2SD2670	12	3	270 to 680	
			2SB1707	2SD2672	12	4	270 to 680	
			QST2*3	QSX1*3	12	6	270 to 680	
	2SB1733	2SD2703	2SB1710	2SD2675	30	1	270 to 680	
	2SB1731	2SD2701	2SB1695	2SD2657	30	1.5	270 to 680	
			2SB1706	2SD2671	30	2	270 to 680	
			2SB1708	2SD2673	30	3	270 to 680	
			QST3*3	QSX2*3	30	5	270 to 680	
Driver			2SAR512R	2SCR512R	30	2	200 to 500	
			2SAR513R	2SCR513R	50	1	180 to 450	
			2SAR553R	2SCR553R	50	2	180 to 450	
			2SAR543R	2SCR543R	50	3	180 to 450	
			2SAR514R	2SCR514R	80	0.7	120 to 390	
			2SAR554R	2SCR554R	80	1.5	120 to 390	
			2SAR544R	2SCR544R	80	2.5	120 to 390	
			2SA2094	2SC5866	60	2	120 to 270 120 to 390	
High Speed Switching			2SAR340Q*3	2SCR341Q*3	400	0.1	82 to 270	

注1: *1 为安装于推荐焊盘时。 注2: *2 关于h_{FE}, 请参照规格说明书。
注3: *3 关于6pin封装(TSMT6/TUMT6)的内部电路, 请参照规格说明书。
注4: PNP型的(—)符号省略。
注5: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

低饱和/驱动器用 双极晶体管														
Package	Application	Product No.						Polarity (ch)	P _D *1 (W)	V _{CEO} (V)	I _C (A)	h _{FE} *2	Automotive Grade AEC-Q101	
		Part No.	Grade Code		Packing code	h _{FE} *2 Code								
	Low V _{CE} (sat)	2SB1732	★	—	TL			PNP	0.4	−12	−1.5	270 to 680	—	
		2SB1730		—	TL				0.4	−12	−2	270 to 680	—	
		2SB1733		—	TL				0.4	−30	−1	270 to 680	—	
		2SB1731		—	TL				0.4	−30	−1.5	270 to 680	—	
		2SD2702		—	TL			NPN	0.4	12	1.5	270 to 680	—	
		2SD2700		—	TL				0.4	12	2	270 to 680	—	
		2SD2703		—	TL				0.4	30	1	270 to 680	—	
		2SD2701		—	TL				0.4	30	1.5	270 to 680	—	
	Low V _{CE} (sat)	2SB1709	★	—	TL			PNP	0.5	−12	−1.5	270 to 680	—	
		2SB1690		—	TL				0.5	−12	−2	270 to 680	—	
		2SB1705		—	TL				0.5	−12	−3	270 to 680	—	
		2SB1707		—	TL				0.5	−12	−4	270 to 680	—	
		2SB1710		—	TL				0.5	−30	−1	270 to 680	—	
		2SB1695		—	TL				0.5	−30	−1.5	270 to 680	—	
		2SB1706		—	TL				0.5	−30	−2	270 to 680	—	
		2SB1708		—	TL				0.5	−30	−3	270 to 680	—	
	Driver	2SAR512R		HZG	TL				0.5	−30	−2	200 to 500	YES	
		2SAR513R		HZG	TL				0.5	−50	−1	180 to 450	YES	
		2SAR553R		HZG	TL				0.5	−50	−2	180 to 450	YES	
		2SAR543R		HZG	TL				0.5	−50	−3	180 to 450	YES	
		2SAR514R		HZG	TL				0.5	−80	−0.7	120 to 390	YES	
		2SAR554R		HZG	TL				0.5	−80	−1.5	120 to 390	YES	
		2SAR544R		HZG	TL				0.5	−80	−2.5	120 to 390	YES	
	High Speed Switching	2SA2094		—	TL	Q			0.5	−60	−2	120 to 270	—	
	Low V _{CE} (sat)	2SD2674		—	TL			NPN	0.5	12	1.5	270 to 680	—	
		2SD2653		—	TL				0.5	12	2	270 to 680	—	
		2SD2670		—	TL				0.5	12	3	270 to 680	—	
		2SD2672		—	TL				0.5	12	4	270 to 680	—	
		2SD2675		—	TL				0.5	30	1	270 to 680	—	
		2SD2657		—	TL				0.5	30	1.5	270 to 680	—	
		2SD2671		—	TL				0.5	30	2	270 to 680	—	
		2SD2673		—	TL				0.5	30	3	270 to 680	—	
	Driver	2SCR512R		HZG	TL				0.5	30	2	200 to 500	YES	
		2SCR513R		HZG	TL				0.5	50	1	180 to 450	YES	
		2SCR553R		HZG	TL				0.5	50	2	180 to 450	YES	
		2SCR543R		HZG	TL				0.5	50	3	180 to 450	YES	
		2SCR514R		HZG	TL				0.5	80	0.7	120 to 390	YES	
		2SCR554R		HZG	TL				0.5	80	1.5	120 to 390	YES	
		2SCR544R		HZG	TL				0.5	80	2.5	120 to 390	YES	
	High Speed Switching	2SC5866		—	TL	Q	R		0.5	60	2	120 to 390	—	
	Low V _{CE} (sat)	QST2*3		★	—	TR			PNP	0.5	−12	−6	270 to 680	—
		QST3*3			—	TR				0.5	−30	−5	270 to 680	—
	High Voltage	2SAR340Q*3			—	TR	P	Q		0.5	−400	−0.1	82 to 270	—
	Low V _{CE} (sat)	QSX1*3			—	TR			NPN	0.5	12	6	270 to 680	—
		QSX2*3			—	TR				0.5	30	5	270 to 680	—
	High Voltage	2SCR341Q*3			—	TR	P	Q	0.5	400	0.1	82 to 270	—	

注1：* 一般产品的性能代码为空白。
 注2：*1 为安装于推荐焊盘时。
 注3：*2 的h_{FE}表示P：82~180，Q：120~270，R：180~390。详情请参考规格书等。
 注4：*3 关于6pin封装(TSMT6/TUMT6)的内部电路，请参照规格说明书。
 注5：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

双极晶体管

功率双极晶体管一览表

Application	Polarity	Package		SOT-89 (MPT3) [SC-62] 4540 size		TO-252 (DPAK)		TO-263AB (LPTL)		V _{CEO} (V)	I _C (A)	h _{FE} *3
		〈DFN2020-3S〉 (HUM12020L3) 2020 size										
		 *1 P _D =0.5W		 *1 P _D =0.5W		 *2 P _D =10W		 *2 P _D =40W				
		PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
Gate Driver				2SAR642P	2SCR642P					30	10*5	200 to 500
Driver				2SB1697	2SD2661					12	2	270 to 680
				2SAR293P 2SAR293P5	2SCR293P 2SCR293P5					30	1	270 to 680
				2SAR512P 2SAR512P5	2SCR512P 2SCR512P5					30	2	200 to 500
				2SAR552P 2SAR552P5	2SCR552P 2SCR552P5					30	3	200 to 500
	2SAR542F3	2SCR542F3								30	3	200 to 500
				2SAR542P	2SCR542P	2SAR572D3	2SCR572D3			30	5	200 to 500
	2SAR562F3	2SCR562F3								30	6	200 to 500
						2SAR582D3	2SCR582D3			30	10	200 to 500
				2SAR513P 2SAR513P5	2SCR513P 2SCR513P5					50	1	180 to 450
				2SAR553P 2SAR553P5	2SCR553P 2SCR553P5					50	2	180 to 450
				2SAR533P 2SAR533P5	2SCR533P 2SCR533P5					50	3	180 to 450
						2SAR573D3	2SCR573D3			50	3	180 to 450
	2SAR563F3	2SCR563F3								50	6	180 to 450
						2SAR583D3	2SCR583D3			50	7	180 to 450
				2SAR514P 2SAR514P5	2SCR514P 2SCR514P5					80	0.7	120 to 390
				2SAR554P 2SAR554P5	2SCR554P 2SCR554P5					80	1.5	120 to 390
						2SAR574D3	2SCR574D3			80	2	120 to 390
				2SAR544P 2SAR544P5	2SCR544P 2SCR544P5					80	2.5	120 to 390
	2SAR564F3	2SCR564F3								80	4	120 to 390
						2SAR586D3	2SCR586D3	2SAR586J	2SCR586J	80	5	120 to 390
				2SAR372P5	2SCR372P 2SCR372P5					120	0.7	120 to 390
				2SAR375P5	2SCR375P 2SCR375P5					120	1.5	120 to 390
	2SAR567F3	2SCR567F3								120	2.5	120 to 390
						2SAR587D3	2SCR587D3			120	3	120 to 390
High Voltage			2SAR340P	2SCR346P					400	0.1	82 to 270	
High Speed Switching			2SA2071P5	2SC5824					60	3	120 to 270 120 to 390	
High h _{FE}				2SD2537					25	1.2	820 to 1,800	
			2SB1427						20	2	390 to 820	
				2SD2153					25	2	560 to 2,700	
Darlington*4				2SD1834					60 (V _{CEs})	1	2k or more	

注1: *1 为安装于推荐焊盘时。
 注2: *2 T_C=25°C
 注3: *3 关于 h_{FE}, 请参照规格说明书。
 注4: *4 关于内部电路, 请参照规格说明书。
 注5: P_W=1ms, 单脉冲。
 注6: PNP型的(-)符号省略。
 注7: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号, < >内表示GENERAL编号。

功率双极晶体管													
Package	Application	Product No.						Polarity (ch)	P _D *1 (W)	V _{CEO} (V)	I _C (A)	h _{FE} *3	Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code	h _{FE} *3 Code							
			General	Automotive									
 (DFN2020-3S) (HUM)2020L3 2020 size	Driver	2SAR542F3	*	—	TR			PNP	0.5	−30	−3	200 to 500	—
		2SAR562F3		—	TR				0.5	−30	−6	200 to 500	—
		2SAR563F3		—	TR				0.5	−50	−6	180 to 450	—
		2SAR564F3		—	TR				0.5	−80	−4	120 to 390	—
		2SAR567F3		—	TR				0.5	−120	−2.5	120 to 390	—
		2SCR542F3		—	TR			NPN	0.5	30	3	200 to 500	—
		2SCR562F3		—	TR				0.5	30	6	200 to 500	—
		2SCR563F3		—	TR				0.5	50	6	180 to 450	—
		2SCR564F3		—	TR				0.5	80	4	120 to 390	—
		2SCR567F3		—	TR				0.5	120	2.5	120 to 390	—
 SOT-89 (MPT3) [SC-62] 4540 size	Gate Driver	2SAR642P	—	HZG	T100			PNP	0.5	−30	−10*5	200 to 500	YES
	Driver	2SB1697	*	—	T100				0.5	−12	−2	270 to 680	—
		2SAR293P	—	HZG	T100				0.5	−30	−1	270 to 680	YES
		2SAR293P5	*	—	T100				0.5	−30	−1	270 to 680	—
		2SAR512P	—	HZG	T100				0.5	−30	−2	200 to 500	YES
		2SAR512P5	*	—	T100				0.5	−30	−2	200 to 500	—
		2SAR552P	—	HZG	T100				0.5	−30	−3	200 to 500	YES
		2SAR552P5	*	—	T100				0.5	−30	−3	200 to 500	—
		2SAR542P	*	FRA	T100				0.5	−30	−5	200 to 500	YES
		2SAR513P	—	HZG	T100				0.5	−50	−1	180 to 450	YES
		2SAR513P5	*	—	T100				0.5	−50	−1	180 to 450	—
		2SAR553P	—	HZG	T100				0.5	−50	−2	180 to 450	YES
		2SAR553P5	*	—	T100				0.5	−50	−2	180 to 450	—
		2SAR533P	—	HZG	T100				0.5	−50	−3	180 to 450	YES
		2SAR533P5	*	—	T100				0.5	−50	−3	180 to 450	—
		2SAR514P	—	HZG	T100				0.5	−80	−0.7	120 to 390	YES
		2SAR514P5	*	—	T100				0.5	−80	−0.7	120 to 390	—
		2SAR554P	—	HZG	T100				0.5	−80	−1.5	120 to 390	YES
		2SAR554P5	*	—	T100				0.5	−80	−1.5	120 to 390	—
		2SAR544P	—	HZG	T100				0.5	−80	−2.5	120 to 390	YES
		2SAR544P5	*	—	T100				0.5	−80	−2.5	120 to 390	—
		2SAR372P5	*	—	T100	Q	R		0.5	−120	−0.7	120 to 390	—
		2SAR375P5	*	—	T100	Q	R		0.5	−120	−1.5	120 to 390	—
	High Voltage	2SAR340P	*	—	T100	P	Q		0.5	−400	−0.1	82 to 270	—
	High Speed Switching	2SA2071P5	*	—	T100	Q			0.5	−60	−3	120 to 270	—
	High h _{FE}	2SB1427	*	—	T100	E			0.5	−20	−2	390 to 820	—
	Gate Driver	2SCR642P	—	HZG	T100			NPN	0.5	30	10*5	200 to 500	YES
	Driver	2SD2661	*	—	T100				0.5	12	2	270 to 680	—
		2SCR293P	—	HZG	T100				0.5	30	1	270 to 680	YES
		2SCR293P5	*	—	T100				0.5	30	1	270 to 680	—
2SCR512P		—	HZG	T100			0.5		30	2	200 to 500	YES	
2SCR512P5		*	—	T100			0.5		30	2	200 to 500	—	
2SCR552P		—	HZG	T100			0.5		30	3	200 to 500	YES	
2SCR552P5		*	—	T100			0.5		30	3	200 to 500	—	
2SCR542P		*	FRA	T100			0.5		30	5	200 to 500	YES	
2SCR513P		—	HZG	T100			0.5		50	1	180 to 450	YES	
2SCR513P5		*	—	T100			0.5		50	1	180 to 450	—	
2SCR553P		—	HZG	T100			0.5		50	2	180 to 450	YES	
2SCR553P5		*	—	T100			0.5		50	2	180 to 450	—	
2SCR533P		—	HZG	T100			0.5		50	3	180 to 450	YES	
2SCR533P5		*	—	T100			0.5		50	3	180 to 450	—	
2SCR514P		—	HZG	T100			0.5		80	0.7	120 to 390	YES	
2SCR514P5		*	—	T100			0.5		80	0.7	120 to 390	—	
2SCR554P		—	HZG	T100			0.5		80	1.5	120 to 390	YES	
2SCR554P5		*	—	T100			0.5		80	1.5	120 to 390	—	
2SCR544P		—	HZG	T100			0.5		80	2.5	120 to 390	YES	
2SCR544P5		*	—	T100			0.5		80	2.5	120 to 390	—	
2SCR372P		—	HZG	T100	Q	R	0.5		120	0.7	120 to 390	YES	
2SCR372P5		*	—	T100	Q	R	0.5		120	0.7	120 to 390	—	
2SCR375P		—	HZG	T100	Q	R	0.5		120	1.5	120 to 390	YES	
2SCR375P5		*	—	T100	Q	R	0.5		120	1.5	120 to 390	—	
High Voltage	2SCR346P	*	—	T100	P	Q	0.5		400	0.1	82 to 270	—	
High Speed Switching	2SC5824	*	—	T100	Q	R	0.5		60	3	120 to 390	—	
High h _{FE}	2SD2537	*	—	T100	V		0.5		25	1.2	820 to 1,800	—	
	2SD2153	*	—	T100	U	V	0.5		25	2	560 to 2,700	—	
Darlington*4	2SD1834	*	—	T100			0.5		60 (V _{CE} S)	1	2k or more	—	

注1：* 一般产品的性能代码为空白。
 注2：*1 为安装于推荐焊盘时。
 注3：*2 T_C=25°C
 注4：*3 的h_{FE}表示P：82~180，Q：120~270，R：180~390，U：560~1200，V：820~1800，W：1200~2700。详情请参考规格书等。
 注5：P_W=1ms，单脉冲。
 注6：*4 关于内部电路，请参照规格说明书。
 注7：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号，〈 〉内表示GENERAL编号。

双极晶体管

功率双极晶体管											
Package	Application	Part No.	Product No.			Polarity (ch)	P _D *1 (W)	V _{CEO} (V)	I _C (A)	h _{FE}	Automotive Grade AEC-Q101
			General	Automotive	Packing code						
 TO-252 (DPAK)	Driver	2SAR572D3	*	—	TL1	PNP	10	-30	-5	200 to 500	—
		2SAR582D3	*	—	TL1		10	-30	-5	200 to 500	YES
		2SAR573D3	*	—	TL1		10	-30	-10	200 to 500	—
		2SAR573D3	*	—	TL1		10	-50	-3	180 to 450	—
		2SAR583D3	*	—	TL1		10	-50	-3	180 to 450	YES
		2SAR574D3	*	—	TL1		10	-50	-7	180 to 450	—
		2SAR583D3	*	—	TL1		10	-80	-2	120 to 390	—
		2SAR574D3	—	FRA	TL		10	-80	-2	120 to 390	YES
		2SAR586D3	*	—	TL1		10	-80	-5	120 to 390	—
		2SAR586D3	—	FRA	TL		10	-80	-5	120 to 390	YES
		2SAR587D3	*	—	TL1	NPN	10	-120	-3	120 to 390	—
		2SCR572D3	*	—	TL1		10	30	5	200 to 500	—
		2SCR582D3	*	—	TL1		10	30	5	200 to 500	YES
		2SCR582D3	*	—	TL1		10	30	10	200 to 500	—
		2SCR573D3	*	—	TL1		10	50	3	180 to 450	—
		2SCR583D3	—	FRA	TL		10	50	3	180 to 450	YES
		2SCR583D3	*	—	TL1		10	50	7	180 to 450	—
		2SCR574D3	*	—	TL1		10	80	2	120 to 390	—
		2SCR586D3	—	FRA	TL		10	80	2	120 to 390	YES
		2SCR586D3	*	—	TL1		10	80	5	120 to 390	—
		2SCR586D3	—	FRA	TL		10	80	5	120 to 390	YES
		2SCR587D3	*	—	TL1		10	120	3	120 to 390	—
 TO-263AB (LPTL)	Driver	2SAR586J	G	—	TLL	PNP	40	-80	-5	120 to 390	—
			—	FRG	TLL		40	-80	-5	120 to 390	YES
		2SCR586J	G	—	TLL	NPN	40	80	5	120 to 390	—
			—	FRG	TLL		40	80	5	120 to 390	YES

注1：* 一般产品的性能代码为空白。
注2：*1 T_C=25°C
注3：封装采用JEDEC表示。()内表示ROHM封装，< >内表示GENERAL编号。

复合双极晶体管

一般放大用 复合双极晶体管一览表									
Configuration	Package		SOT-553/SOT-563 (EMT5/EMT6) [SC-107BB/SC-107C] 1616 size	SOT-353/SOT-363 (UMT5/UMT6) [SC-88A/SC-88] 2021 size	SOT-25/SOT-457 (SMT5/SMT6) [SC-74A/SC-74] 2928 size	Equivalent Element Transistors	V _{CEO} (V)	I _C (A)	h _{FE}
	Item								
	Application		Equivalent Circuit Diagram (TOP View)	Part No.					
PNP×2	Pre Amplifier		EMT51			2SAR522EB×2	−20	−0.2	120 to 560
			EMT52			2SAR523EB×2	−50	−0.1	120 to 560
			EMT1	UMT1N	IMT1A	2SA1037AK×2	−50	−0.15	120 to 560
			EMT18	UMT18N	IMT18	2SA2018×2	−12	−0.5	270 to 680
NPN×2	Pre Amplifier		EMX51			2SCR522EB×2	20	0.2	120 to 560
			EMX52			2SCR523EB×2	50	0.1	120 to 560
			EMX1	UMX1N	IMX1	2SC2412K×2	50	0.15	120 to 560
			EMX26			2SD2654×2	50	0.15	820 to 2,700
			EMX18	UMX18N		2SC5585×2	12	0.5	270 to 680
					IMX25	2SD2704K×2	20	0.3	820 to 2,700
			EMY1	UMY1N	FMY1A	2SA1037AK	−50	−0.15	120 to 560
						2SC2412K	50	0.15	120 to 560
PNP + NPN	Pre Amplifier		EMZ51			2SAR522EB	−20	−0.2	120 to 560
						SCR522EB	20	0.2	120 to 560
			EMZ52			2SAR523EB	−50	−0.1	120 to 560
						2SCR523EB	50	0.1	120 to 560
			EMZ1	UMZ1N	IMZ1A	2SA1037AK	−50	−0.15	120 to 560
						2SC2412K	50	0.15	120 to 560
			EMZ7			2SA2018	−12	−0.5	270 to 680
						2SC5585	12	0.5	270 to 680
			EMZ8			2SA2018	−12	−0.5	270 to 680
						2SC2412K	50	0.15	120 to 560

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

一般放大用 复合双极晶体管											
Package	Configuration	Application	Product No.				Equivalent Element Transistors	V _{CEO} (V)	I _C (A)	h _{FE}	Automotive Grade AEC-Q101
			Part No.	Grade Code		Packing code					
General	Automotive										
 SOT-553 (EMT5) [SC-107BB] 1616 size	PNP+NPN	Pre Amplifier	EMY1	*	—	T2R	2SA1037AK	−50	−0.15	120 to 560	—
					—	T2R	2SC2412K	50	0.15	120 to 560	
 SOT-563 (EMT6) [SC-107C] 1616 size	PNP×2	Pre Amplifier	EMT51	*	—	T2R	2SAR522EB×2	−20	−0.2	120 to 560	—
			EMT52		—	T2R	2SAR523EB×2	−50	−0.1	120 to 560	—
			EMT1		—	T2R	2SA1037AK×2	−50	−0.15	120 to 560	—
			EMT18		—	T2R	2SA2018×2	−12	−0.5	270 to 680	—
	NPN×2		EMX51		—	T2R	2SCR522EB×2	20	0.2	120 to 560	—
			EMX52		—	T2R	2SCR523EB×2	50	0.1	120 to 560	—
			EMX1		—	T2R	2SC2412K×2	50	0.15	120 to 560	—
			EMX26		—	T2R	2SD2654×2	50	0.15	820 to 2,700	—
	PNP+NPN		EMX18		—	T2R	2SC5585×2	12	0.5	270 to 680	—
			EMZ51		—	T2R	2SAR522EB	−20	−0.2	120 to 560	—
							2SCR522EB	20	0.2	120 to 560	
			EMZ52		—	T2R	2SAR523EB	−50	−0.1	120 to 560	—
							2SCR523EB	50	0.1	120 to 560	
			EMZ1		—	T2R	2SA1037AK	−50	−0.15	120 to 560	—
							2SC2412K	50	0.15	120 to 560	
			EMZ7		—	T2R	2SA2018	−12	−0.5	270 to 680	—
							2SC5585×2	12	0.5	270 to 680	
			EMZ8		—	T2R	2SA2018	−12	−0.5	270 to 680	—
							2SC2412K	50	0.15	120 to 560	
 SOT-353 (UMT5) [SC-88A] 2021 size	PNP+NPN	Pre Amplifier	UMY1N	*	—	TR	2SA1037AK	−50	−0.15	120 to 560	—
							2SC2412K	50	0.15	120 to 560	
 SOT-363 (UMT6) [SC-88] 2021 size	PNP×2	Pre Amplifier	UMT18N	*	—	TR	2SA2018×2	−12	−0.5	270 to 680	—
			UMT1N		FHA	TN	2SA1037AK×2	−50	−0.15	120 to 560	YES
	NPN×2		UMX18N		—	TN	2SC5585×2	12	0.5	270 to 680	—
			UMX1N		FHA	TN	2SC2412K×2	50	0.15	120 to 560	YES
	PNP+NPN		UMZ1N		FHA	TR	2SA1037AK	−50	−0.15	120 to 560	YES
							2SC2412K	50	0.15	120 to 560	
 SOT-25 (SMT5) [SC-74A] 2928 size	PNP+NPN	Pre Amplifier	FMY1A	*	—	T148	2SA1037AK	−50	−0.15	120 to 560	YES
							2SC2412K	50	0.15	120 to 560	
 SOT-457 (SMT6) [SC-74] 2928 size	PNP×2	Pre Amplifier	IMT1A	*	—	T110	2SA1037AK×2	−50	−0.15	120 to 560	—
			IMT18		—	T110	2SA2018×2	−12	−0.5	270 to 680	—
	NPN×2		IMX1		—	T110	2SC2412K×2	50	0.15	120 to 560	—
			IMX25		—	T110	2SD2704K×2	20	0.3	820 to 2,700	—
	PNP+NPN		IMZ1A		—	T108	2SA1037AK	−50	−0.15	120 to 560	—
							2SC2412K	50	0.15	120 to 560	

注1：* 一般产品的产品性能代码为空白。
 注2：关于引脚配置，请参照规格说明书。
 注3：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

复合双极晶体管

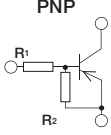
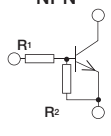
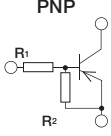
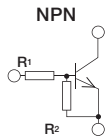
驱动器用 复合双极晶体管一览表									
Configuration	Package	Item	Equivalent Circuit Diagram (TOP View)	SOT-363T (TUMT6) [SC-113DA] 2021 size	SOT-25T/SOT-457T (TSMT5/TSMT6) [—/SC-95] 2928 size	Equivalent Element Transistors	V _{CEO} (V)	I _C (A)	h _{FE}
									
	Application	Part No.							
PNP×2	Driver		US6T8	QST8	2SB1709×2	–12	–1.5	270 to 680	
			US6T9	QST9	2SB1710×2	–30	–1	270 to 680	
NPN×2	Driver		US6X7	QSX7	2SD2674×2	12	1.5	270 to 680	
			US6X8	QSX8	2SD2675×2	30	1	270 to 680	
	DC/DC Converter			QS5W1	Exclusive Chip	30	3	200 to 500	
				QS5W2	2SCR533P×2	50	3	180 to 450	
PNP + NPN	Pre Amplifier			QS6Z5	2SAR513P 2SCR513P	–50 50	–1 1	180 to 450 180 to 450	
	DC/DC Converter			QSZ2	2SB1695 2SD2657	–30 30	–1.5 1.5	270 to 680 270 to 680	
				QSZ4	2SB1706 2SD2671	–30 30	–2 2	270 to 680 270 to 680	
				QS5Y1	Exclusive Chip	–30 30	–3 3	200 to 500 200 to 500	
				QS5Y2	2SAR533P 2SCR533P	–50 50	–3 3	180 to 450 180 to 450	

注1：关于引脚配置，请参照规格说明书。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

驱动器用 复合双极晶体管											
Package	Configuration	Application	Product No.				Equivalent Element Transistors	V _{CEO} (V)	I _C (A)	h _{FE}	Automotive Grade AEC-Q101
			Part No.	Grade Code		Packing code					
General	Automotive										
 SOT-363T (TUMT6) [SC-113DA] 2021 size	PNP×2	Driver	US6T8	*	—	TR	2SB1709×2	−12	−1.5	270 to 680	—
			US6T9	*	—	TR	2SB1710×2	−30	−1	270 to 680	—
	NPN×2		US6X7	*	—	TR	2SD2674×2	12	1.5	270 to 680	—
			US6X8	*	—	TR	2SD2675×2	30	1	270 to 680	—
 SOT-25T (TSMT5) 2928 size	NPN×2	DC/DC Converter	QS5W1	*	—	TR	Exclusive Chip	30	3	200 to 500	—
			QS5W2	*	—	TR	2SCR533P×2	50	3	180 to 450	—
	PNP+NPN		QSZ2	*	—	TR	2SB1695 2SD2657	−30 30	−1.5 1.5	270 to 680 270 to 680	—
			QSZ4	*	—	TR	2SB1706 2SD2671	−30 30	−2 2	270 to 680 270 to 680	—
			QS5Y1	*	—	TR	Exclusive Chip	−30 30	−3 3	200 to 500 200 to 500	—
			QS5Y2	*	—	TR	2SAR533P 2SCR533P	−50 50	−3 3	180 to 450 180 to 450	—
 SOT-457T (TSMT6) [SC-95] 2928 size	PNP×2	Driver	QST8	*	—	TR	2SB1709×2	−12	−1.5	270 to 680	—
			QST9	*	—	TR	2SB1710×2	−30	−1	270 to 680	—
	NPN×2		QSX7	*	—	TR	2SD2674×2	12	1.5	270 to 680	—
			QSX8	*	—	TR	2SD2675×2	30	1	270 to 680	—
	PNP+NPN	Pre Amplifier	QS6Z5	*	—	TR	2SAR513P 2SCR513P	−50 50	−1 1	180 to 450 180 to 450	—

注1：* 一般产品的产品性能代码为空白。
 注2：关于引脚配置，请参照规格说明书。
 注3：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

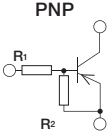
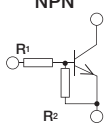
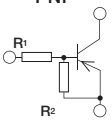
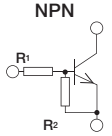
数字晶体管

100mA 数字晶体管(车载适用品)											
Package	Polarity	Specifications	Part No.		Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I ₀ (I _C) (A)	G _i (h _{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-723 (VMT3) [SC-105AA] 1212 size P _D =150mW*		R ₁ =R ₂	DTA123EM	DTA123EMFHA	T2L	2.2	2.2	-50	-0.1	20 or more	YES
			DTA143EM	DTA143EMFHA	T2L	4.7	4.7	-50	-0.1	30 or more	YES
			DTA114EM	DTA114EMFHA	T2L	10	10	-50	-0.05	30 or more	YES
			DTA124EM	DTA124EMFHA	T2L	22	22	-50	-0.03	56 or more	YES
			DTA144EM	DTA144EMFHA	T2L	47	47	-50	-0.03	68 or more	YES
			DTA115EM	DTA115EMFHA	T2L	100	100	-50	-0.02	82 or more	YES
		R ₁ ≠R ₂	DTA113ZM	DTA113ZMFHA	T2L	1	10	-50	-0.1	33 or more	YES
			DTA123YM	DTA123YMFHA	T2L	2.2	10	-50	-0.1	33 or more	YES
			DTA123JM	DTA123JMFHA	T2L	2.2	47	-50	-0.1	80 or more	YES
			DTA143XM	DTA143XMFHA	T2L	4.7	10	-50	-0.1	30 or more	YES
			DTA143ZM	DTA143ZMFHA	T2L	4.7	47	-50	-0.1	80 or more	YES
			DTA114WM	DTA114WMFHA	T2L	10	4.7	-50	-0.1	24 or more	YES
			DTA114YM	DTA114YMFHA	T2L	10	47	-50	-0.07	68 or more	YES
			DTA124XM	DTA124XMFHA	T2L	22	47	-50	-0.05	68 or more	YES
			DTA144VM	DTA144VMFHA	T2L	47	10	-50	-0.03	33 or more	YES
			DTA144WM	DTA144WMFHA	T2L	47	22	-50	-0.03	56 or more	YES
		R ₁ Alone	DTA123TM	DTA123TMFHA	T2L	2.2	—	-50	-0.1	100 to 600	YES
			DTA143TM	DTA143TMFHA	T2L	4.7	—	-50	-0.1	100 to 600	YES
			DTA114TM	DTA114TMFHA	T2L	10	—	-50	-0.1	100 to 600	YES
		R ₁ =R ₂	DTC123EM	DTC123EMFHA	T2L	2.2	2.2	50	0.1	20 or more	YES
			DTC143EM	DTC143EMFHA	T2L	4.7	4.7	50	0.1	30 or more	YES
			DTC114EM	DTC114EMFHA	T2L	10	10	50	0.05	30 or more	YES
			DTC124EM	DTC124EMFHA	T2L	22	22	50	0.03	56 or more	YES
			DTC144EM	DTC144EMFHA	T2L	47	47	50	0.03	68 or more	YES
			DTC115EM	DTC115EMFHA	T2L	100	100	50	0.02	82 or more	YES
		R ₁ ≠R ₂	DTC113ZM	DTC113ZMFHA	T2L	1	10	50	0.1	33 or more	YES
			DTC123YM	DTC123YMFHA	T2L	2.2	10	50	0.1	33 or more	YES
			DTC123JM	DTC123JMFHA	T2L	2.2	47	50	0.1	80 or more	YES
			DTC143XM	DTC143XMFHA	T2L	4.7	10	50	0.1	30 or more	YES
			DTC143ZM	DTC143ZMFHA	T2L	4.7	47	50	0.1	80 or more	YES
			DTC114WM	DTC114WMFHA	T2L	10	4.7	50	0.1	24 or more	YES
			DTC114YM	DTC114YMFHA	T2L	10	47	50	0.07	68 or more	YES
			DTC124XM	DTC124XMFHA	T2L	22	47	50	0.05	68 or more	YES
			DTC144VM	DTC144VMFHA	T2L	47	10	50	0.03	33 or more	YES
			DTC144WM	DTC144WMFHA	T2L	47	22	50	0.03	56 or more	YES
		R ₁ Alone	DTC123TM	DTC123TMFHA	T2L	2.2	—	50	0.1	100 to 600	YES
			DTC143TM	DTC143TMFHA	T2L	4.7	—	50	0.1	100 to 600	YES
			DTC114TM	DTC114TMFHA	T2L	10	—	50	0.1	100 to 600	YES
			DTC144TM	DTC144TMFHA	T2L	47	—	50	0.1	100 to 600	YES
 SOT-416FL (EMT3F) [SC-89] 1616 size P _D =150mW*		R ₁ =R ₂	DTA123EEB	—	TL	2.2	2.2	-50	-0.1	20 or more	—
			DTA143EEB	—	TL	4.7	4.7	-50	-0.1	30 or more	—
			DTA114EEB	—	TL	10	10	-50	-0.05	30 or more	—
			DTA124EEB	—	TL	22	22	-50	-0.03	56 or more	—
			DTA144EEB	—	TL	47	47	-50	-0.03	68 or more	—
			DTA115EEB	—	TL	100	100	-50	-0.02	82 or more	—
		R ₁ ≠R ₂	DTA113ZEB	—	TL	1	10	-50	-0.1	33 or more	—
			DTA123YEB	—	TL	2.2	10	-50	-0.1	33 or more	—
			DTA123JEB	—	TL	2.2	47	-50	-0.1	80 or more	—
			DTA143XEB	—	TL	4.7	10	-50	-0.1	30 or more	—
			DTA143ZEB	—	TL	4.7	47	-50	-0.1	80 or more	—
			DTA114YEB	—	TL	10	47	-50	-0.07	68 or more	—
			DTA124XEB	—	TL	22	47	-50	-0.05	68 or more	—
		R ₁ Alone	DTA143TEB	—	TL	4.7	—	-50	-0.1	100 to 600	—
			DTA114TEB	—	TL	10	—	-50	-0.1	100 to 600	—
			DTC123EEB	—	TL	2.2	2.2	50	0.1	20 or more	—
		R ₁ =R ₂	DTC143EEB	—	TL	4.7	4.7	50	0.1	30 or more	—
			DTC114EEB	—	TL	10	10	50	0.05	30 or more	—
			DTC124EEB	—	TL	22	22	50	0.03	56 or more	—
			DTC144EEB	—	TL	47	47	50	0.03	68 or more	—
			DTC115EEB	—	TL	100	100	50	0.02	82 or more	—
		R ₁ ≠R ₂	DTC113ZEB	—	TL	1	10	50	0.1	33 or more	—
			DTC123YEB	—	TL	2.2	10	50	0.1	33 or more	—
			DTC123JEB	—	TL	2.2	47	50	0.1	80 or more	—
			DTC143XEB	—	TL	4.7	10	50	0.1	30 or more	—
			DTC143ZEB	—	TL	4.7	47	50	0.1	80 or more	—
			DTC114YEB	—	TL	10	47	50	0.07	68 or more	—
			DTC124XEB	—	TL	22	47	50	0.05	68 or more	—
		R ₁ Alone	DTC143TEB	—	TL	4.7	—	50	0.1	100 to 600	—
			DTC114TEB	—	TL	10	—	50	0.1	100 to 600	—
			DTC114TEB	—	TL	10	—	50	0.1	100 to 600	—

注1：*为安装于推荐焊盘时。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

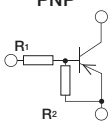
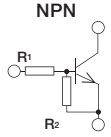
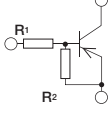
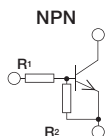
数字晶体管

100mA 数字晶体管(车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CEO}) (V)	I _O (I _C) (A)	G _i (h _{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-416 (EMT3) [SC-75A] 1616 size P _D =150mW*	 PNP	R ₁ =R ₂	DTA123EE	DTA123EEFRA	TL	2.2	2.2	-50	-0.1	20 or more	YES
			DTA143EE	DTA143EEFRA	TL	4.7	4.7	-50	-0.1	30 or more	YES
			DTA114EE	DTA114EEFRA	TL	10	10	-50	-0.05	30 or more	YES
			DTA124EE	DTA124EEFRA	TL	22	22	-50	-0.03	56 or more	YES
			DTA144EE	DTA144EEFRA	TL	47	47	-50	-0.03	68 or more	YES
			DTA115EE	—	TL	100	100	-50	-0.02	82 or more	—
		R ₁ ≠R ₂	DTA113ZE	DTA113ZEFRA	TL	1	10	-50	-0.1	33 or more	YES
			DTA123YE	DTA123YEFRA	TL	2.2	10	-50	-0.1	33 or more	YES
			DTA123JE	DTA123JEFRA	TL	2.2	47	-50	-0.1	80 or more	YES
			DTA143XE	DTA143XEFRA	TL	4.7	10	-50	-0.1	30 or more	YES
			DTA143ZE	DTA143ZEFRA	TL	4.7	47	-50	-0.1	80 or more	YES
			DTA114YE	DTA114YEFRA	TL	10	47	-50	-0.07	68 or more	YES
			DTA124XE	DTA124XEFRA	TL	22	47	-50	-0.05	68 or more	YES
		R ₁ Alone	DTA143TE	DTA143TEFRA	TL	4.7	—	-50	-0.1	100 to 600	YES
			DTA114TE	DTA114TEFRA	TL	10	—	-50	-0.1	100 to 600	YES
	 NPN	R ₁ =R ₂	DTC123EE	DTC123EEFRA	TL	2.2	2.2	50	0.1	20 or more	YES
			DTC143EE	DTC143EEFRA	TL	4.7	4.7	50	0.1	30 or more	YES
			DTC114EE	DTC114EEFRA	TL	10	10	50	0.05	30 or more	YES
			DTC124EE	DTC124EEFRA	TL	22	22	50	0.03	56 or more	YES
			DTC144EE	DTC144EEFRA	TL	47	47	50	0.03	68 or more	YES
			DTC115EE	—	TL	100	100	50	0.02	82 or more	—
		R ₁ ≠R ₂	DTC113ZE	DTC113ZEFRA	TL	1	10	50	0.1	33 or more	YES
			DTC123YE	DTC123YEFRA	TL	2.2	10	50	0.1	33 or more	YES
			DTC123JE	DTC123JEFRA	TL	2.2	47	50	0.1	80 or more	YES
			DTC143XE	DTC143XEFRA	TL	4.7	10	50	0.1	30 or more	YES
			DTC143ZE	DTC143ZEFRA	TL	4.7	47	50	0.1	80 or more	YES
			DTC114YE	DTC114YEFRA	TL	10	47	50	0.07	68 or more	YES
			DTC124XE	DTC124XEFRA	TL	22	47	50	0.05	68 or more	YES
		R ₁ Alone	DTC143TE	DTC143TEFRA	TL	4.7	—	50	0.1	100 to 600	YES
			DTC114TE	DTC114TEFRA	TL	10	—	50	0.1	100 to 600	YES
 SOT-323FL (UMT3F) [SC-85] 2021 size P _D =200mW*	 PNP	R ₁ =R ₂	DTA123EUB	—	TL	2.2	2.2	-50	-0.1	20 or more	—
			DTA143EUB	—	TL	4.7	4.7	-50	-0.1	30 or more	—
			DTA114EUB	—	TL	10	10	-50	-0.05	30 or more	—
			DTA124EUB	—	TL	22	22	-50	-0.03	56 or more	—
			DTA144EUB	—	TL	47	47	-50	-0.03	68 or more	—
			DTA115EUB	—	TL	100	100	-50	-0.02	82 or more	—
		R ₁ ≠R ₂	DTA113ZUB	—	TL	1	10	-50	-0.1	33 or more	—
			DTA123YUB	—	TL	2.2	10	-50	-0.1	33 or more	—
			DTA123JUB	—	TL	2.2	47	-50	-0.1	80 or more	—
			DTA143XUB	—	TL	4.7	10	-50	-0.1	30 or more	—
			DTA143ZUB	—	TL	4.7	47	-50	-0.1	80 or more	—
			DTA114YUB	—	TL	10	47	-50	-0.07	68 or more	—
			DTA124XUB	—	TL	22	47	-50	-0.05	68 or more	—
		R ₁ Alone	DTA143TUB	—	TL	4.7	—	-50	-0.1	100 to 600	—
			DTA114TUB	—	TL	10	—	-50	-0.1	100 to 600	—
	 NPN	R ₁ =R ₂	DTC123EUB	—	TL	2.2	2.2	50	0.1	20 or more	—
			DTC143EUB	—	TL	4.7	4.7	50	0.1	30 or more	—
			DTC114EUB	—	TL	10	10	50	0.05	30 or more	—
			DTC124EUB	—	TL	22	22	50	0.03	56 or more	—
			DTC144EUB	—	TL	47	47	50	0.03	68 or more	—
			DTC115EUB	—	TL	100	100	50	0.02	82 or more	—
		R ₁ ≠R ₂	DTC113ZUB	—	TL	1	10	50	0.1	33 or more	—
			DTC123YUB	—	TL	2.2	10	50	0.1	33 or more	—
			DTC123JUB	—	TL	2.2	47	50	0.1	80 or more	—
			DTC143XUB	—	TL	4.7	10	50	0.1	30 or more	—
			DTC143ZUB	—	TL	4.7	47	50	0.1	80 or more	—
			DTC114YUB	—	TL	10	47	50	0.07	68 or more	—
			DTC124XUB	—	TL	22	47	50	0.05	68 or more	—
		R ₁ Alone	DTC143TUB	—	TL	4.7	—	50	0.1	100 to 600	—
			DTC114TUB	—	TL	10	—	50	0.1	100 to 600	—

注1：*为安装于推荐焊盘时。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

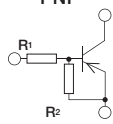
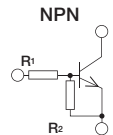
100mA 数字晶体管(车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I ₀ (I _C) (A)	G _i (h _{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-323 (UMT3) [SC-70] 2021 size P _D =200mW*		R ₁ =R ₂	—	—	T106	10	10	-50	-0.05	30 or more	—
		R ₁ ≠R ₂	DTA114WUA	—	T106	10	4.7	-50	-0.1	24 or more	—
			DTA144WUA	—	T106	47	22	-50	-0.03	56 or more	—
		R ₁ Alone	DTA123TUA	—	T106	2.2	—	-50	-0.1	100 to 600	—
			DTA124TUA	—	T106	22	—	-50	-0.1	100 to 600	—
			DTA144TUA	—	T106	47	—	-50	-0.1	100 to 600	—
			DTA115TUA	—	T106	100	—	-50	-0.1	100 to 600	—
		R ₂ Alone	DTA114GUA	—	T106	—	10	-50	-0.1	30 or more	—
			DTA144GUA	—	T106	—	47	-50	-0.1	68 or more	—
			DTA115GUA	—	T106	—	100	-50	-0.1	82 or more	—
		R ₁ ≠R ₂	DTC114WUA	—	T106	10	4.7	50	0.1	24 or more	—
			DTC144WUA	—	T106	47	22	50	0.03	56 or more	—
		R ₁ Alone	DTC124TUA	—	T106	22	—	50	0.1	100 to 600	—
			DTC144TUA	—	T106	47	—	50	0.1	100 to 600	—
			DTC115TUA	—	T106	100	—	50	0.1	100 to 600	—
		R ₂ Alone	DTC124GUA	—	T106	—	22	50	0.1	56 or more	—
			DTC144GUA	—	T106	—	47	50	0.1	68 or more	—
		R ₁ =R ₂	DTA123EU3	DTA123EU3HZG	T106	2.2	2.2	-50	-0.1	20 or more	YES
			DTA143EU3	DTA143EU3HZG	T106	4.7	4.7	-50	-0.1	30 or more	YES
			DTA114EU3	DTA114EU3HZG	T106	10	10	-50	-0.05	30 or more	YES
			DTA124EU3	DTA124EU3HZG	T106	22	22	-50	-0.03	56 or more	YES
			DTA144EU3	DTA144EU3HZG	T106	47	47	-50	-0.03	68 or more	YES
			DTA115EU3	—	T106	100	100	-50	-0.02	82 or more	—
		R ₁ ≠R ₂	DTA113ZU3	DTA113ZU3HZG	T106	1	10	-50	-0.1	33 or more	YES
			DTA123YU3	DTA123YU3HZG	T106	2.2	10	-50	-0.1	33 or more	YES
			DTA123JU3	DTA123JU3HZG	T106	2.2	47	-50	-0.1	80 or more	YES
			DTA143XU3	DTA143XU3HZG	T106	4.7	10	-50	-0.1	30 or more	YES
			DTA143ZU3	DTA143ZU3HZG	T106	4.7	47	-50	-0.1	80 or more	YES
			DTA114YU3	DTA114YU3HZG	T106	10	47	-50	-0.07	68 or more	YES
		R ₁ Alone	DTA124XU3	DTA124XU3HZG	T106	22	47	-50	-0.05	68 or more	YES
			DTA143TU3	DTA143TU3HZG	T106	4.7	—	-50	-0.1	100 to 600	YES
			DTA114TU3	DTA114TU3HZG	T106	10	—	-50	-0.1	100 to 600	YES
		R ₁ =R ₂	DTC123EU3	DTC123EU3HZG	T106	2.2	2.2	50	0.1	20 or more	YES
			DTC143EU3	DTC143EU3HZG	T106	4.7	4.7	50	0.1	30 or more	YES
			DTC114EU3	DTC114EU3HZG	T106	10	10	50	0.05	30 or more	YES
			DTC124EU3	DTC124EU3HZG	T106	22	22	50	0.03	56 or more	YES
			DTC144EU3	DTC144EU3HZG	T106	47	47	50	0.03	68 or more	YES
			DTC115EU3	—	T106	100	100	50	0.02	82 or more	—
		R ₁ ≠R ₂	DTC113ZU3	DTC113ZU3HZG	T106	1	10	50	0.1	33 or more	YES
			DTC123YU3	DTC123YU3HZG	T106	2.2	10	50	0.1	33 or more	YES
			DTC123JU3	DTC123JU3HZG	T106	2.2	47	50	0.1	80 or more	YES
			DTC143XU3	DTC143XU3HZG	T106	4.7	10	50	0.1	30 or more	YES
			DTC143ZU3	DTC143ZU3HZG	T106	4.7	47	50	0.1	80 or more	YES
			DTC114YU3	DTC114YU3HZG	T106	10	47	50	0.07	68 or more	YES
		R ₁ Alone	DTC124XU3	DTC124XU3HZG	T106	22	47	50	0.05	68 or more	YES
			DTC143TU3	DTC143TU3HZG	T106	4.7	—	50	0.1	100 to 600	YES
		R ₂ Alone	DTC114TU3	DTC114TU3HZG	T106	10	—	50	0.1	100 to 600	YES
			DTC115GU3	—	T106	—	100	50	0.1	82 or more	—

注1：*为安装于推荐焊盘时。
注2：封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

数字晶体管

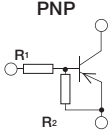
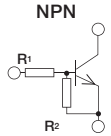
100mA 数字晶体管(车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _O (I _C) (A)	G _I (h _{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-23 (SST3) 2924 size P _D =200mW*	PNP 	R ₁ =R ₂	DTA123ECA	DTA123ECAHZG	T116	2.2	2.2	-50	-0.1	20 or more	YES
			DTA143ECA	DTA143ECAHZG	T116	4.7	4.7	-50	-0.1	30 or more	YES
			DTA114ECA	DTA114ECAHZG	T116	10	10	-50	-0.05	30 or more	YES
			DTA124ECA	DTA124ECAHZG	T116	22	22	-50	-0.03	56 or more	YES
			DTA144ECA	DTA144ECAHZG	T116	47	47	-50	-0.03	68 or more	YES
			DTA115ECA	—	T116	100	100	-50	-0.02	82 or more	—
		R ₁ ≠R ₂	DTA113ZCA	DTA113ZCAHZG	T116	1	10	-50	-0.1	33 or more	YES
			DTA123YCA	DTA123YCAHZG	T116	2.2	10	-50	-0.1	33 or more	YES
			DTA123JCA	DTA123JCAHZG	T116	2.2	47	-50	-0.1	80 or more	YES
			DTA143XCA	DTA143XCAHZG	T116	4.7	10	-50	-0.1	30 or more	YES
			DTA143ZCA	DTA143ZCAHZG	T116	4.7	47	-50	-0.1	80 or more	YES
			DTA114YCA	DTA114YCAHZG	T116	10	47	-50	-0.07	68 or more	YES
		R ₁ Alone	DTA124XCA	DTA124XCAHZG	T116	22	47	-50	-0.05	68 or more	YES
			DTA144VCA	DTA144VCAHZG	T116	47	10	-50	-0.03	33 or more	YES
			DTA144WCA	DTA144WCAHZG	T116	47	22	-50	-0.03	56 or more	YES
			DTA123TCA	DTA123TCAHZG	T116	2.2	—	-50	-0.1	100 to 600	YES
			DTA143TCA	DTA143TCAHZG	T116	4.7	—	-50	-0.1	100 to 600	YES
			DTA114TCA	DTA114TCAHZG	T116	10	—	-50	-0.1	100 to 600	YES
			DTA124TCA	DTA124TCAHZG	T116	22	—	-50	-0.1	100 to 600	YES
			DTA144TCA	DTA144TCAHZG	T116	47	—	-50	-0.1	100 to 600	YES
			DTA115TCA	DTA115TCAHZG	T116	100	—	-50	-0.1	100 to 600	YES
	NPN 	R ₁ =R ₂	DTC123ECA	DTC123ECAHZG	T116	2.2	2.2	50	0.1	20 or more	YES
			DTC143ECA	DTC143ECAHZG	T116	4.7	4.7	50	0.1	30 or more	YES
			DTC114ECA	DTC114ECAHZG	T116	10	10	50	0.05	30 or more	YES
			DTC124ECA	DTC124ECAHZG	T116	22	22	50	0.03	56 or more	YES
			DTC144ECA	DTC144ECAHZG	T116	47	47	50	0.03	68 or more	YES
			DTC115ECA	—	T116	100	100	50	0.02	82 or more	—
		R ₁ ≠R ₂	DTC113ZCA	DTC113ZCAHZG	T116	1	10	50	0.1	33 or more	YES
			DTC123YCA	DTC123YCAHZG	T116	2.2	10	50	0.1	33 or more	YES
			DTC123JCA	DTC123JCAHZG	T116	2.2	47	50	0.1	80 or more	YES
			DTC143XCA	DTC143XCAHZG	T116	4.7	10	50	0.1	30 or more	YES
			DTC143ZCA	DTC143ZCAHZG	T116	4.7	47	50	0.1	80 or more	YES
			DTC114YCA	DTC114YCAHZG	T116	10	47	50	0.07	68 or more	YES
		R ₁ Alone	DTC124XCA	DTC124XCAHZG	T116	22	47	50	0.05	68 or more	YES
			DTC144VCA	DTC144VCAHZG	T116	47	10	50	0.03	33 or more	YES
			DTC144WCA	DTC144WCAHZG	T116	47	22	50	0.03	56 or more	YES
			DTC123TCA	DTC123TCAHZG	T116	2.2	—	50	0.1	100 to 600	YES
			DTC143TCA	DTC143TCAHZG	T116	4.7	—	50	0.1	100 to 600	YES
			DTC114TCA	DTC114TCAHZG	T116	10	—	50	0.1	100 to 600	YES
			DTC124TCA	DTC124TCAHZG	T116	22	—	50	0.1	100 to 600	YES
			DTC144TCA	DTC144TCAHZG	T116	47	—	50	0.1	100 to 600	YES
			DTC115TCA	DTC115TCAHZG	T116	100	—	50	0.1	100 to 600	YES

注1: *为安装于推荐焊盘时。

注2: 封装采用JEDEC表示。()内表示ROHM封装。

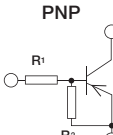
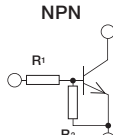
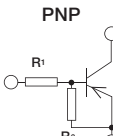
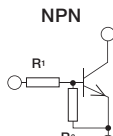
100mA 数字晶体管(车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I ₀ (I _C) (A)	G _i (h _{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-346 (SMT3) [SC-59] 2928 size P _D =200mW*	PNP 	R ₁ =R ₂	DTA123EKA	DTA123EKAFRA	T146	2.2	2.2	-50	-0.1	20 or more	YES
			DTA143EKA	DTA143EKAFRA	T146	4.7	4.7	-50	-0.1	30 or more	YES
			DTA114EKA	DTA114EKAFRA	T146	10	10	-50	-0.05	30 or more	YES
			DTA124EKA	DTA124EKAFRA	T146	22	22	-50	-0.03	56 or more	YES
			DTA144EKA	DTA144EKAFRA	T146	47	47	-50	-0.03	68 or more	YES
			DTA115EKA	DTA115EKAFRA	T146	100	100	-50	-0.02	82 or more	YES
		R ₁ ≠R ₂	DTA113ZKA	DTA113ZKAFRA	T146	1	10	-50	-0.1	33 or more	YES
			DTA123YKA	DTA123YKAFRA	T146	2.2	10	-50	-0.1	33 or more	YES
			DTA123JKA	DTA123JKAFRA	T146	2.2	47	-50	-0.1	80 or more	YES
			DTA143XKA	DTA143XKAFRA	T146	4.7	10	-50	-0.1	30 or more	YES
			DTA143ZKA	DTA143ZKAFRA	T146	4.7	47	-50	-0.1	80 or more	YES
			DTA114YKA	DTA114YKAFRA	T146	10	47	-50	-0.07	68 or more	YES
		R ₁ Alone	DTA124XKA	DTA124XKAFRA	T146	22	47	-50	-0.05	68 or more	YES
			DTA143TKA	DTA143TKAFRA	T146	4.7	—	-50	-0.1	100 to 600	YES
			DTA114TKA	DTA114TKAFRA	T146	10	—	-50	-0.1	100 to 600	YES
	NPN 	R ₁ =R ₂	DTC123EKA	DTC123EKAFRA	T146	2.2	2.2	50	0.1	20 or more	YES
			DTC143EKA	DTC143EKAFRA	T146	4.7	4.7	50	0.1	30 or more	YES
			DTC114EKA	DTC114EKAFRA	T146	10	10	50	0.05	30 or more	YES
			DTC124EKA	DTC124EKAFRA	T146	22	22	50	0.03	56 or more	YES
			DTC144EKA	DTC144EKAFRA	T146	47	47	50	0.03	68 or more	YES
			DTC115EKA	DTC115EKAFRA	T146	100	100	50	0.02	82 or more	YES
		R ₁ ≠R ₂	DTC113ZKA	DTC113ZKAFRA	T146	1	10	50	0.1	33 or more	YES
			DTC123YKA	DTC123YKAFRA	T146	2.2	10	50	0.1	33 or more	YES
			DTC123JKA	DTC123JKAFRA	T146	2.2	47	50	0.1	80 or more	YES
			DTC143XKA	DTC143XKAFRA	T146	4.7	10	50	0.1	30 or more	YES
			DTC143ZKA	DTC143ZKAFRA	T146	4.7	47	50	0.1	80 or more	YES
			DTC114YKA	DTC114YKAFRA	T146	10	47	50	0.07	68 or more	YES
		R ₁ Alone	DTC124XKA	DTC124XKAFRA	T146	22	47	50	0.05	68 or more	YES
			DTC143TKA	DTC143TKAFRA	T146	4.7	—	50	0.1	100 to 600	YES
			DTC114TKA	DTC114TKAFRA	T146	10	—	50	0.1	100 to 600	YES

注1：*为安装于推荐焊盘时。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

数字晶体管

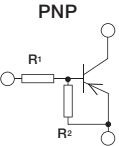
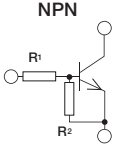
100mA 数字晶体管(一般产品)

Package	Polarity	Specifications	Part No.	Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CEO}) (V)	I _O (I _C) (A)	G ₁ (h _{FE})
 SOT-723 (VMT3) [SC-105AA] 1212 size P _D =150mW*		R ₁ =R ₂	DTA023EM	T2L	2.2	2.2	-50	-0.1	20 or more
			DTA043EM	T2L	4.7	4.7	-50	-0.1	20 or more
			DTA014EM	T2L	10	10	-50	-0.05	35 or more
			DTA024EM	T2L	22	22	-50	-0.03	60 or more
			DTA044EM	T2L	47	47	-50	-0.03	80 or more
		R ₁ ≠R ₂	DTA015EM	T2L	100	100	-50	-0.02	80 or more
			DTA013ZM	T2L	1	10	-50	-0.1	30 or more
			DTA023YM	T2L	2.2	10	-50	-0.1	35 or more
			DTA023JM	T2L	2.2	47	-50	-0.1	80 or more
			DTA043XM	T2L	4.7	10	-50	-0.1	35 or more
			DTA043ZM	T2L	4.7	47	-50	-0.1	80 or more
			DTA014YM	T2L	10	47	-50	-0.07	80 or more
			DTA024XM	T2L	22	47	-50	-0.05	80 or more
		R ₁ Alone	DTA043TM	T2L	4.7	—	-50	-0.1	100 to 600
			DTA014TM	T2L	10	—	-50	-0.1	100 to 600
			DTA044TM	T2L	47	—	-50	-0.06	100 to 600
			DTA015TM	T2L	100	—	-50	-0.1	100 to 600
		R ₁ =R ₂	DTC023EM	T2L	2.2	2.2	50	0.1	20 or more
			DTC043EM	T2L	4.7	4.7	50	0.1	20 or more
			DTC014EM	T2L	10	10	50	0.05	35 or more
			DTC024EM	T2L	22	22	50	0.03	60 or more
			DTC044EM	T2L	47	47	50	0.03	80 or more
		R ₁ ≠R ₂	DTC015EM	T2L	100	100	50	0.02	80 or more
			DTC013ZM	T2L	1	10	50	0.1	30 or more
			DTC023YM	T2L	2.2	10	50	0.1	35 or more
			DTC023JM	T2L	2.2	47	50	0.1	80 or more
			DTC043XM	T2L	4.7	10	50	0.1	35 or more
			DTC043ZM	T2L	4.7	47	50	0.1	80 or more
			DTC014YM	T2L	10	47	50	0.07	80 or more
			DTC024XM	T2L	22	47	50	0.05	80 or more
		R ₁ Alone	DTC043TM	T2L	4.7	—	50	0.1	100 to 600
			DTC014TM	T2L	10	—	50	0.1	100 to 600
			DTC044TM	T2L	47	—	50	0.06	100 to 600
			DTC015TM	T2L	100	—	50	0.1	100 to 600
 SOT-416FL (EMT3F) [SC-89] 1616 size P _D =150mW*		R ₁ =R ₂	DTA023EEB	TL	2.2	2.2	-50	-0.1	20 or more
			DTA043EEB	TL	4.7	4.7	-50	-0.1	20 or more
			DTA014EEB	TL	10	10	-50	-0.05	35 or more
			DTA024EEB	TL	22	22	-50	-0.03	60 or more
			DTA044EEB	TL	47	47	-50	-0.03	80 or more
		R ₁ ≠R ₂	DTA015EEB	TL	100	100	-50	-0.02	80 or more
			DTA013ZEB	TL	1	10	-50	-0.1	30 or more
			DTA023YEB	TL	2.2	10	-50	-0.1	35 or more
			DTA023JEB	TL	2.2	47	-50	-0.1	80 or more
			DTA043XEB	TL	4.7	10	-50	-0.1	35 or more
			DTA043ZEB	TL	4.7	47	-50	-0.1	80 or more
			DTA014YEB	TL	10	47	-50	-0.07	80 or more
			DTA024XEB	TL	22	47	-50	-0.05	80 or more
		R ₁ Alone	DTA043TEB	TL	4.7	—	-50	-0.1	100 to 600
			DTA014TEB	TL	10	—	-50	-0.1	100 to 600
			DTA044TEB	TL	47	—	-50	-0.06	100 to 600
			DTA015TEB	TL	100	—	-50	-0.1	100 to 600
		R ₁ =R ₂	DTC023EEB	TL	2.2	2.2	50	0.1	20 or more
			DTC043EEB	TL	4.7	4.7	50	0.1	20 or more
			DTC014EEB	TL	10	10	50	0.05	35 or more
			DTC024EEB	TL	22	22	50	0.03	60 or more
			DTC044EEB	TL	47	47	50	0.03	80 or more
		R ₁ ≠R ₂	DTC015EEB	TL	100	100	50	0.02	80 or more
			DTC013ZEB	TL	1	10	50	0.1	30 or more
			DTC023YEB	TL	2.2	10	50	0.1	35 or more
			DTC023JEB	TL	2.2	47	50	0.1	80 or more
			DTC043XEB	TL	4.7	10	50	0.1	35 or more
			DTC043ZEB	TL	4.7	47	50	0.1	80 or more
			DTC014YEB	TL	10	47	50	0.07	80 or more
			DTC024XEB	TL	22	47	50	0.05	80 or more
		R ₁ Alone	DTC043TEB	TL	4.7	—	50	0.1	100 to 600
			DTC014TEB	TL	10	—	50	0.1	100 to 600
			DTC044TEB	TL	47	—	50	0.06	100 to 600
			DTC015TEB	TL	100	—	50	0.1	100 to 600

注1: *为安装于推荐焊盘时。

注2: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

100mA 数字晶体管(一般产品)

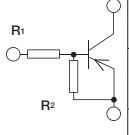
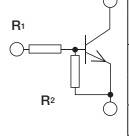
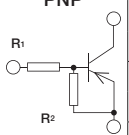
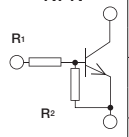
Package	Polarity	Specifications	Part No.	Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _O (I _C) (A)	G _I (h _{FE})
 SOT-323FL (UMT3F) [SC-85] 2021 size P _D =200mW*	PNP 	R ₁ =R ₂	DTA023EUB	TL	2.2	2.2	-50	-0.1	20 or more
			DTA043EUB	TL	4.7	4.7	-50	-0.1	20 or more
			DTA014EUB	TL	10	10	-50	-0.05	35 or more
			DTA024EUB	TL	22	22	-50	-0.03	60 or more
			DTA044EUB	TL	47	47	-50	-0.03	80 or more
			DTA015EUB	TL	100	100	-50	-0.02	80 or more
		R ₁ ≠R ₂	DTA013ZUB	TL	1	10	-50	-0.1	30 or more
			DTA023YUB	TL	2.2	10	-50	-0.1	35 or more
			DTA023JUB	TL	2.2	47	-50	-0.1	80 or more
			DTA043XUB	TL	4.7	10	-50	-0.1	35 or more
			DTA043ZUB	TL	4.7	47	-50	-0.1	80 or more
			DTA014YUB	TL	10	47	-50	-0.07	80 or more
			DTA024XUB	TL	22	47	-50	-0.05	80 or more
		R ₁ Alone	DTA043TUB	TL	4.7	—	-50	-0.1	100 to 600
			DTA014TUB	TL	10	—	-50	-0.1	100 to 600
			DTA044TUB	TL	47	—	-50	-0.06	100 to 600
			DTA015TUB	TL	100	—	-50	-0.1	100 to 600
	NPN 	R ₁ =R ₂	DTC023EUB	TL	2.2	2.2	50	0.1	20 or more
			DTC043EUB	TL	4.7	4.7	50	0.1	20 or more
			DTC014EUB	TL	10	10	50	0.05	35 or more
			DTC024EUB	TL	22	22	50	0.03	60 or more
			DTC044EUB	TL	47	47	50	0.03	80 or more
			DTC015EUB	TL	100	100	50	0.02	80 or more
		R ₁ ≠R ₂	DTC013ZUB	TL	1	10	50	0.1	30 or more
			DTC023YUB	TL	2.2	10	50	0.1	35 or more
			DTC023JUB	TL	2.2	47	50	0.1	80 or more
			DTC043XUB	TL	4.7	10	50	0.1	35 or more
			DTC043ZUB	TL	4.7	47	50	0.1	80 or more
			DTC014YUB	TL	10	47	50	0.07	80 or more
			DTC024XUB	TL	22	47	50	0.05	80 or more
		R ₁ Alone	DTC043TUB	TL	4.7	—	50	0.1	100 to 600
			DTC014TUB	TL	10	—	50	0.1	100 to 600
			DTC044TUB	TL	47	—	50	0.06	100 to 600
			DTC015TUB	TL	100	—	50	0.1	100 to 600

注1：*为安装于推荐焊盘时。

注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

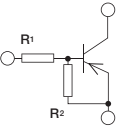
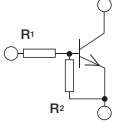
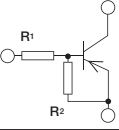
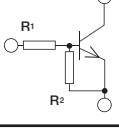
数字晶体管

500mA 数字晶体管(含车载适用品)

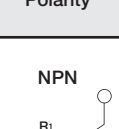
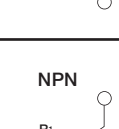
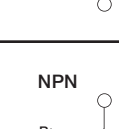
Package	Polarity	Specifications	Part No.		Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _O (I _C) (A)	G _i (h _{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-23 (SOT-23) 2924 size P _D =200mW*	 PNP	R ₁ =R ₂	DTB113EC	DTB113ECHZG	T116	1	1	-50	-0.5	33 or more	YES
			DTB123EC	DTB123ECHZG	T116	2.2	2.2	-50	-0.5	39 or more	YES
			DTB143EC	DTB143ECHZG	T116	4.7	4.7	-50	-0.5	47 or more	YES
			DTB114EC	DTB114ECHZG	T116	10	10	-50	-0.5	56 or more	YES
		R ₁ ≠R ₂	DTB113ZC	DTB113ZCHZG	T116	1	10	-50	-0.5	56 or more	YES
			DTB123YC	DTB123YCHZG	T116	2.2	10	-50	-0.5	56 or more	YES
			DTB114GC	DTB114GCHZG	T116	—	10	-50	-0.5	56 or more	YES
		R ₂ Alone	DTB123TC	DTB123TCHZG	T116	2.2	—	-40	-0.5	100 to 600	YES
	 NPN	R ₁ =R ₂	DTD113EC	DTD113ECHZG	T116	1	1	50	0.5	33 or more	YES
			DTD123EC	DTD123ECHZG	T116	2.2	2.2	50	0.5	39 or more	YES
			DTD143EC	DTD143ECHZG	T116	4.7	4.7	50	0.5	47 or more	YES
			DTD114EC	DTD114ECHZG	T116	10	10	50	0.5	56 or more	YES
		R ₁ ≠R ₂	DTD113ZC	DTD113ZCHZG	T116	1	10	50	0.5	56 or more	YES
			DTD123YC	DTD123YCHZG	T116	2.2	10	50	0.5	56 or more	YES
			DTD114GC	DTD114GCHZG	T116	—	10	50	0.5	56 or more	YES
		R ₂ Alone	DTD123TC	DTD123TCHZG	T116	2.2	—	40	0.5	100 to 600	YES
 SOT-346 (SMT3) [SC-59] 2928 size P _D =200mW*	 PNP	R ₁ =R ₂	DTB113EK	—	T146	1	1	-50	-0.5	33 or more	—
			DTB123EK	—	T146	2.2	2.2	-50	-0.5	39 or more	—
			DTB143EK	—	T146	4.7	4.7	-50	-0.5	47 or more	—
			DTB114EK	—	T146	10	10	-50	-0.5	56 or more	—
		R ₁ ≠R ₂	DTB113ZK	—	T146	1	10	-50	-0.5	56 or more	—
			DTB123YK	—	T146	2.2	10	-50	-0.5	56 or more	—
			DTB114GK	—	T146	—	10	-50	-0.5	56 or more	—
		R ₂ Alone	DTB123TK	—	T146	2.2	—	-40	-0.5	100 to 600	—
	 NPN	R ₁ =R ₂	DTD113EK	—	T146	1	1	50	0.5	33 or more	—
			DTD123EK	—	T146	2.2	2.2	50	0.5	39 or more	—
			DTD143EK	—	T146	4.7	4.7	50	0.5	47 or more	—
			DTD114EK	—	T146	10	10	50	0.5	56 or more	—
		R ₁ ≠R ₂	DTD113ZK	—	T146	1	10	50	0.5	56 or more	—
			DTD123YK	—	T146	2.2	10	50	0.5	56 or more	—
			DTD114GK	—	T146	—	10	50	0.5	56 or more	—
		R ₂ Alone	DTD123TK	—	T146	2.2	—	40	0.5	100 to 600	—

注1: *为安装于推荐焊盘时。

注2: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

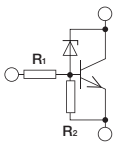
12V/500mA 数字晶体管									
Package	Polarity	Specifications	Part No.	Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CEO}) (V)	I _O (I _C) (A)	G _I (h _{FE})
 SOT-723 (VMT3) [SC-105AA] 1212 size P _D =150mW*	PNP 	R ₁ =R ₂	DTB543EM	T2L	4.7	4.7	-12	-0.5	115 or more
		R ₁ ≠R ₂	DTB513ZM	T2L	1	10	-12	-0.5	140 or more
			DTB523YM	T2L	2.2	10	-12	-0.5	140 or more
			DTB543XM	T2L	4.7	10	-12	-0.5	140 or more
			DTB543ZM	T2L	4.7	47	-12	-0.5	140 or more
	NPN 	R ₁ =R ₂	DTD543EM	T2L	4.7	4.7	12	0.5	115 or more
		R ₁ ≠R ₂	DTD513ZM	T2L	1	10	12	0.5	140 or more
			DTD523YM	T2L	2.2	10	12	0.5	140 or more
			DTD543XM	T2L	4.7	10	12	0.5	140 or more
			DTD543ZM	T2L	4.7	47	12	0.5	140 or more
 SOT-416 (EMT3) [SC-75A] 1616 size P _D =150mW*	PNP 	R ₁ =R ₂	DTB543EE	TL	4.7	4.7	-12	-0.5	115 or more
		R ₁ ≠R ₂	DTB513ZE	TL	1	10	-12	-0.5	140 or more
			DTB523YE	TL	2.2	10	-12	-0.5	140 or more
			DTB543ZE	TL	4.7	47	-12	-0.5	140 or more
	NPN 	R ₁ =R ₂	DTD543EE	TL	4.7	4.7	12	0.5	115 or more
		R ₁ ≠R ₂	DTD513ZE	TL	1	10	12	0.5	140 or more
			DTD523YE	TL	2.2	10	12	0.5	140 or more
			DTD543XE	TL	4.7	10	12	0.5	140 or more
			DTD543ZE	TL	4.7	47	12	0.5	140 or more

注1：*为安装于推荐焊盘时。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

静音用数字晶体管									
Package	Polarity	Specifications	Part No.	Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CEO}) (V)	I _O (I _C) (A)	G _I (h _{FE})
 SOT-323FL (UMT3F) [SC-85] 2021 size P _D =200mW*	NPN 	R ₁ Alone	DTC923TUB	TL	2.2	—	40 (V _{EB0})	0.4	820 to 2,700
			DTC943TUB	TL	4.7	—	40 (V _{EB0})	0.4	820 to 2,700
			DTC914TUB	TL	10	—	40 (V _{EB0})	0.4	820 to 2,700
 SOT-323 (UMT3) [SC-70] 2021 size P _D =200mW*	NPN 	R ₁ Alone	DTC623TU	T106	2.2	—	20	0.6	820 to 2,700
			DTC643TU	T106	4.7	—	20	0.6	820 to 2,700
			DTC614TU	T106	10	—	20	0.6	820 to 2,700
 SOT-346 (SMT3) [SC-59] 2928 size P _D =200mW*	NPN 	R ₁ Alone	DTC623TK	T146	2.2	—	20	0.6	820 to 2,700
			DTC643TK	T146	4.7	—	20	0.6	820 to 2,700
			DTC614TK	T146	10	—	20	0.6	820 to 2,700

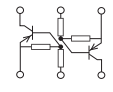
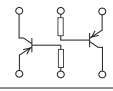
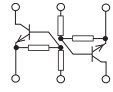
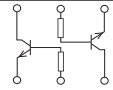
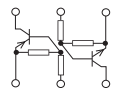
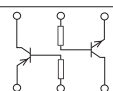
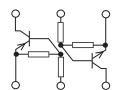
注1：*为安装于推荐焊盘时。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

数字晶体管

功率数字晶体管(含车载适用品)											
Package	Polarity	Specifications	Part No.		Packing code	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _O (I _C) (A)	G _I (h _{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-89 (MPT3) [SC-62] 4540 size P _D =0.5W*	 NPN	Driver	DTDG23YP	DTDG23YPHZG	T100	2.2	10	60±10	1	300 or more	YES
			DTDG14GP	DTDG14GPHZG	T100	—	10	60±10	1	300 or more	YES

注1：*为安装于推荐焊盘时。
注2：关于内部电路，请参照规格说明书。
注3：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

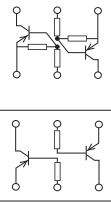
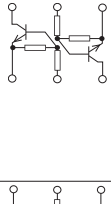
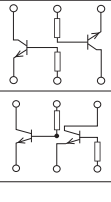
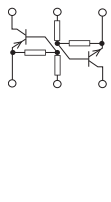
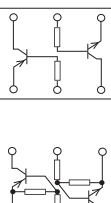
复合数字晶体管

100mA 复合数字晶体管									
Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _o (I _c) (A)
 SOT-563 (EMT6) [SC-107C] 1616 size	PNP×2		EMB10	T2R	DTA123J×2	2.2	47	-50	-0.1
			EMB11	T2R	DTA114E×2	10	10		-0.05
			EMB2	T2R	DTA144E×2	47	47		-0.03
			EMB3	T2R	DTA143T×2	4.7	—		-0.1
			EMB4	T2R	DTA114T×2	10	—		-0.1
	NPN×2		EMH10	T2R	DTC123J×2	2.2	47	50	0.1
			EMH25	T2R	DTC143Z×2	4.7	47		0.1
			EMH11	T2R	DTC114E×2	10	10		0.05
			EMH9	T2R	DTC114Y×2	10	47		0.07
			EMH1	T2R	DTC124E×2	22	22		0.03
			EMH2	T2R	DTC144E×2	47	47		0.03
			EMH3	T2R	DTC143T×2	4.7	—		0.1
			EMH4	T2R	DTC114T×2	10	—		0.1
	PNP+NPN Complimentary		EMD22	T2R	DTA143Z	4.7	47	-50	-0.1
					DTC143Z	4.7	47	50	0.1
			EMD3	T2R	DTA114E	10	10	-50	-0.05
					DTC114E	10	10	50	0.05
			EMD9	T2R	DTA114Y	10	47	-50	-0.07
					DTC114Y	10	47	50	0.07
			EMD2	T2R	DTA124E	22	22	-50	-0.03
					DTC124E	22	22	50	0.03
			EMD12	T2R	DTA144E	47	47	-50	-0.03
					DTC144E	47	47	50	0.03
			EMD6	T2R	DTA143T	4.7	—	-50	-0.1
					DTC143T	4.7	—	50	0.1
	PNP+NPN Different type		EMD5	T2R	DTA143X	4.7	10	-50	-0.1
					DTC144E	47	47	50	0.03
			EMD4	T2R	DTA114Y	10	47	-50	-0.1
					DTC144E	7	47	50	0.03

注1：关于引脚配置，请参照规格说明书。
注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

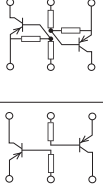
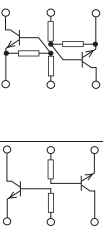
复合数字晶体管

100mA 复合数字晶体管(含车载适用品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.		Packing code	Equivalent Element Transistors	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CEO}) (V)	I _O (I _C) (A)	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-363 (UMT6) [SC-88] 2021 size	PNP×2		UMB10N	UMB10NFHA	TN	DTA123J×2	2.2	47	-50	-0.1	YES
			UMB11N	UMB11NFHA	TN	DTA114E×2	10	10		-0.05	YES
			UMB2N	UMB2NFHA	TN	DTA144E×2	47	47		-0.03	YES
			UMB3N	UMB3NFHA	TN	DTA143T×2	4.7	—		-0.1	YES
			UMB4N	UMB4NFHA	TN	DTA114T×2	10	—		-0.1	YES
	NPN×2		UMH10N	UMH10NFHA	TN	DTC123J×2	2.2	47	50	0.1	YES
			UMH25N	UMH25NFHA	TN	DTC143Z×2	4.7	47		0.1	YES
			UMH11N	UMH11NFHA	TN	DTC114E×2	10	10		0.05	YES
			UMH9N	UMH9NFHA	TN	DTC114Y×2	10	47		0.07	YES
			UMH1N	UMH1NFHA	TN	DTC124E×2	22	22		0.03	YES
			UMH2N	UMH2NFHA	TN	DTC144E×2	47	47		0.03	YES
			UMH3N	UMH3NFHA	TN	DTC143T×2	4.7	—		0.1	YES
			UMH4N	UMH4NFHA	TN	DTC114T×2	10	—		0.1	YES
			<i>New</i> UMH8N	—	TR	DTC114T×2	10	—		0.1	—
	PNP+NPN Complimentary		UMD25N	—	TR	DTA123J	2.2	47	-50	-0.1	—
						DTC123J	2.2	47	50	0.1	
			UMD22N	UMD22NFHA	TR	DTA143Z	4.7	47	-50	-0.1	YES
						DTC143Z	4.7	47	50	0.1	
			UMD3N	UMD3NFHA	TR	DTA114E	10	10	-50	-0.05	YES
						DTC114E	10	10	50	0.05	
			UMD9N	UMD9NFHA	TR	DTA114Y	10	47	-50	-0.07	YES
						DTC114Y	10	47	50	0.07	
			UMD2N	UMD2NFHA	TR	DTA124E	22	22	-50	-0.03	YES
						DTC124E	22	22	50	0.03	
			UMD12N	UMD12NFHA	TR	DTA144E	47	47	-50	-0.03	YES
						DTC144E	47	47	50	0.03	
	PNP+NPN Different type		UMD6N	UMD6NFHA	TR	DTA143T	4.7	—	-50	-0.1	YES
						DTC143T	4.7	—	50	0.1	
			UMD5N	—	TR	DTA143X	4.7	10	-50	-0.1	—
						DTC144E	47	47	50	0.03	
			UMD4N	—	TR	DTA114Y	10	47	-50	-0.1	—
						DTC144E	47	47	50	0.03	

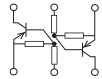
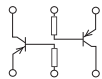
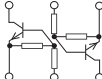
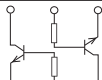
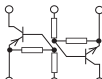
注1：关于引脚配置，请参照规格说明书。

注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

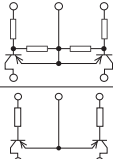
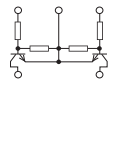
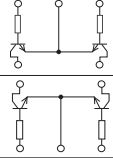
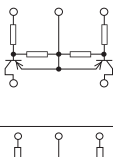
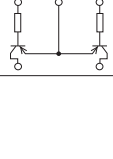
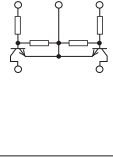
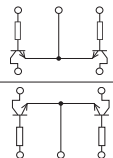
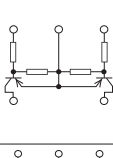
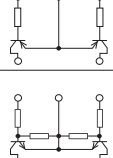
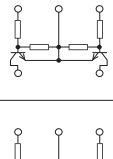
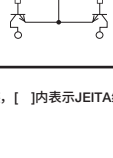
100mA 复合数字晶体管(含车载适用品)											
Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.		Packing code	Equivalent Element Transistors	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _O (I _C) (A)	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-457 (SMT6) [SC-74] 2928 size	PNP×2		IMB10A	—	T110	DTA123J×2	2.2	47	-50	-0.1	—
			IMB11A	—	T110	DTA114E×2	10	10		-0.05	—
			IMB2A	—	T110	DTA144E×2	47	47		-0.03	—
			IMB3A	—	T110	DTA143T×2	4.7	—		-0.1	—
	NPN×2		IMH11A	IMH11AFRA	T110	DTC114E×2	10	10	50	0.05	YES
			IMH9A	IMH9AFRA	T110	DTC114Y×2	10	47		0.07	YES
			IMH1A	—	T110	DTC124E×2	22	22		0.03	—
			IMH2A	—	T110	DTC144E×2	47	47		0.03	—
			IMH3A	—	T110	DTC143T×2	4.7	—		0.1	—
			IMH4A	—	T110	DTC114T×2	10	—		0.1	—
	PNP+NPN Complimentary		IMD3A	IMD3AFRA	T108	DTA114E	10	10	-50	-0.05	YES
						DTC114E	10	10	50	0.05	
			IMD9A	IMD9AFRA	T108	DTA114Y	10	47	-50	-0.07	YES
						DTC114Y	10	47	50	0.07	
			IMD2A	—	T108	DTA124E	22	22	-50	-0.03	—
						DTC124E	22	22	50	0.03	
			IMD6A	—	T108	DTA143T	4.7	—	-50	-0.1	—
						DTC143T	4.7	—	50	0.1	

注1：关于引脚配置，请参考规格说明书。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

复合数字晶体管

100mA 复合数字晶体管 (一般产品)1									
Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _O (I _C) (A)
 SOT-563 (EMT6) [SC-107C] 1616 size	PNP×2		EMB60	T2R	DTA023J×2	2.2	47	-50	-0.1
			EMB75	T2R	DTA043Z×2	4.7	47		-0.1
			EMB59	T2R	DTA014Y×2	10	47		-0.07
			EMB61	T2R	DTA014E×2	10	10		-0.05
			EMB51	T2R	DTA024E×2	22	22		-0.03
			EMB52	T2R	DTA044E×2	47	47		-0.03
			EMB53	T2R	DTA043T×2	4.7	—		-0.1
	NPN×2		EMH60	T2R	DTC023J×2	2.2	47	50	0.1
			EMH75	T2R	DTC043Z×2	4.7	47		0.1
			EMH61	T2R	DTC014E×2	10	10		0.05
			EMH59	T2R	DTC014Y×2	10	47		0.07
			EMH51	T2R	DTC024E×2	22	22		0.03
			EMH52	T2R	DTC044E×2	47	47		0.03
			EMH53	T2R	DTC043T×2	4.7	—		0.1
	PNP+NPN Complimentary		EMD72	T2R	DTA043Z	4.7	47	-50	-0.1
					DTC043Z	4.7	47	50	0.1
			EMD59	T2R	DTA014Y	10	47	-50	-0.07
					DTC014Y	10	47	50	0.07
			EMD53	T2R	DTA014E	10	10	-50	-0.05
					DTC014E	10	10	50	0.05
			EMD52	T2R	DTA024E	22	22	-50	-0.03
					DTC024E	22	22	50	0.03
			EMD62	T2R	DTA044E	47	47	-50	-0.03
					DTC044E	47	47	50	0.03

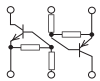
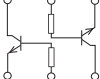
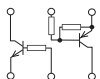
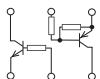
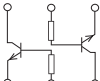
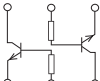
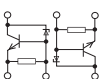
注1：关于引脚配置，请参照规格说明书。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

100mA 复合数字晶体管 (一般产品)2									
Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _o (I _c) (A)
 SOT-553 (EMT5) [SC-107BB] 1616 size	PNP×2		EMA5	T2R	DTA123J×2	2.2	47	-50	-0.1
			EMA3	T2R	DTA143T×2	4.7	—	-50	-0.1
			EMA4	T2R	DTA114T×2	10	—	-50	-0.1
	NPN×2		EMG11	T2R	DTC123J×2	2.2	47	50	0.1
			EMG8	T2R	DTC143Z×2	4.7	47	50	0.1
			EMG9	T2R	DTC114Ex×2	10	10	50	0.05
			EMG5	T2R	DTC114Y×2	10	47	50	0.07
			EMG1	T2R	DTC124Ex×2	22	22	50	0.03
			EMG2	T2R	DTC144Ex×2	47	47	50	0.03
			EMG3	T2R	DTC143T×2	4.7	—	50	0.1
			EMG4	T2R	DTC114T×2	10	—	50	0.1
			EMG6	T2R	DTC144T×2	47	—	50	0.1
 SOT-353 (UMT5) [SC-88A] 2021 size	PNP×2		UMA5N	TR	DTA123J×2	2.2	47	-50	-0.1
			UMA9N	TR	DTA114Ex×2	10	10	-50	-0.05
			UMA1N	TR	DTA124Ex×2	22	22	-50	-0.03
			UMA2N	TR	DTA144Ex×2	47	47	-50	-0.03
			UMA3N	TR	DTA143T×2	4.7	—	-50	-0.1
			UMA4N	TR	DTA114T×2	10	—	-50	-0.1
	NPN×2		UMG11N	TR	DTC123J×2	2.2	47	50	0.1
			UMG8N	TR	DTC143Z×2	4.7	47	50	0.1
			UMG9N	TR	DTC114Ex×2	10	10	50	0.05
			UMG5N	TR	DTC114Y×2	10	47	50	0.07
			UMG1N	TR	DTC124Ex×2	22	22	50	0.03
			UMG2N	TR	DTC144Ex×2	47	47	50	0.03
			UMG3N	TR	DTC143T×2	4.7	—	50	0.1
			UMG4N	TR	DTC114T×2	10	—	50	0.1
			UMG6N	TR	DTC144T×2	47	—	50	0.1
 SOT-25 (SMT5) [SC-74A] 2928 size	PNP×2		FMA5A	T148	DTA123J×2	2.2	47	-50	-0.1
			FMA9A	T148	DTA114Ex×2	10	10	-50	-0.05
			FMA1A	T148	DTA124Ex×2	22	22	-50	-0.03
			FMA2A	T148	DTA144Ex×2	47	47	-50	-0.03
			FMA3A	T148	DTA143T×2	4.7	—	-50	-0.1
			FMA4A	T148	DTA114T×2	10	—	-50	-0.1
	NPN×2		FMG9A	T148	DTC114Ex×2	10	10	50	0.05
			FMG1A	T148	DTC124Ex×2	22	22	50	0.03
			FMG2A	T148	DTC144Ex×2	47	47	50	0.03
			FMG3A	T148	DTC143T×2	4.7	—	50	0.1
			FMG4A	T148	DTC114T×2	10	—	50	0.1
			FMG6A	T148	DTC144T×2	47	—	50	0.1

注1：关于引脚配置，请参照规格说明书。

注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

复合数字晶体管

电源/静音/驱动器用 复合数字晶体管									
Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R ₁ (kΩ)	R ₂ (kΩ)	V _{CC} (V _{CE0}) (V)	I _O (I _C) (A)
 SOT-563 (EMT6) [SC-107C] 1616 size	PNP+NPN Power Management		EMD29	T2R	DTB513Z DTC114E	1 10	10 10	-12 50	-0.5 0.1
 SOT-363 (UMT6) [SC-88] 2021 size	NPN×2 Muting		UMH33N	TN	DTC923TUB×2	2.2	—	40 (V _{EB0})	0.4
			UMH37N	TN	DTC914TUB×2	10	—	40 (V _{EB0})	0.4
 SOT-457 (SMT6) [SC-74] 2928 size	PNP+NPN Power Management		IMD10A	T108	Exclusive Chip DTC114T	0.1 10	10 —	-50 50	-0.5 0.1
	PNP+NPN Power Management		IMD16A	T108	Exclusive Chip DTC115T	2.2 100	22 —	-50 50	-0.5 0.1
	NPN×2 Muting		IMH23	T110	DTC643T×2	4.7	—	20	0.6
	NPN×2 Muting		IMH21	T110	DTC614T×2	10	—	20	0.6
 SOT-457T (TSMT6) [SC-95] 2928 size	NPN×2 Driver		QSH29	TR	Exclusive Chip×2	—	10	60±10	0.5

注1：SOT-563(EMT6)/SOT-363(UMT6)封装的1 Pin位于等效电路图右上部、SOT-457(SMT6)封装的1 Pin位于等效电路图右下部。
 注2：封装采用JEDEC表示。()内表示ROHM封装，[]内表示JEITA编号。

封装

●外形尺寸图 (单位: mm)

DFN0604-3 (VML0604) 	DFN0806-3 (VML0806) 	DFN1006-3 (VML1006) [SC-101] 	SOT-723 (VMT3) [SC-105AA] 	SOT-416FL (EMT3F) [SC-89] 	SOT-416 (EMT3) [SC-75A]
SOT-553 (EMT5) [SC-107BB] 	SOT-563 (EMT6) [SC-107C] 	SOT-323FL (UMT3F) [SC-85] 	SOT-323 (UMT3) [SC-70] 	SOT-353 (UMT5) [SC-88A] 	
SOT-363 (UMT6) [SC-88] 	SOT-23 (SST3) 	SOT-346 (SMT3) [SC-59] 	SOT-25 (SMT5) [SC-74A] 	SOT-457 (SMT6) [SC-74] 	
SOT-323T (TUMT3) [SC-113A] 	SOT-353T (TUMT5) [SC-113CA] 	SOT-363T (TUMT6) [SC-113DA] 	SOT-346T (TSMT3) [SC-96] 	SOT-25T (TSMT5) 	
SOT-457T (TSMT6) [SC-95] 	(TSMT8) 	DFN1010-3W 	DFN1212-3 	DFN1616-6 	
DFN1616-6W 	(HEML1616L7 Single) (DFN1616-7T) 	(HUML2020L3) (DFN2020-3S) 	(HUML2020L8 Single) (DFN2020-8S) 		
(HUML2020L8 Dual) (DFN2020-8D) 	(HSML3030L10) 	(HSML3333L9) (DFN3333-9DC) 	(HSMT8)*1 		
(HSMT8)*2 	SOT-89 (MPT3) [SC-62] 	(SOP8) 			

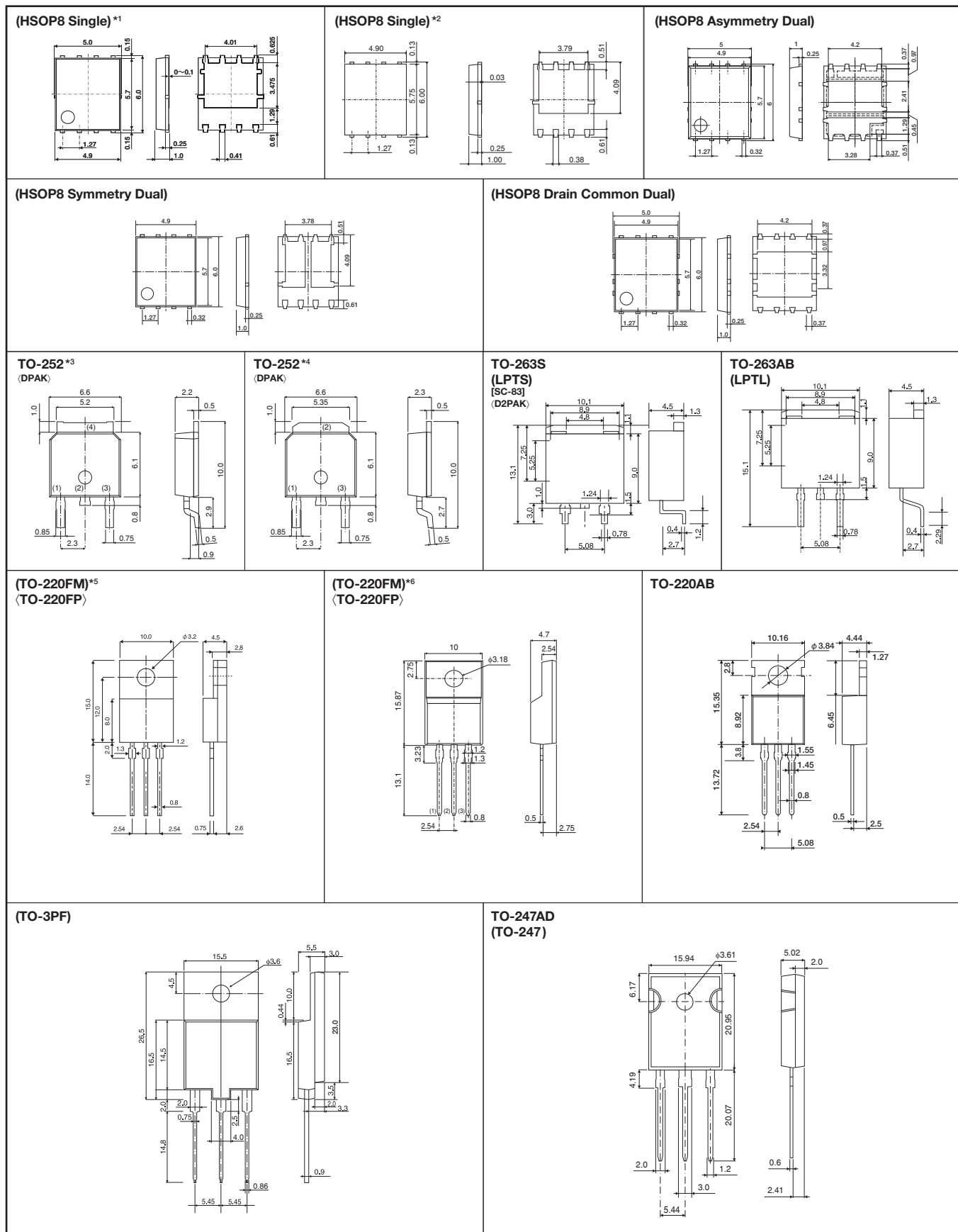
注1: *1 Taping code: TB, *2 Taping code: TB1

注2: 封装采用JEDEC表示。()内表示JEITA编号。〈 〉内表示GENERAL编号。

注3: 详细尺寸请参考规格书。

封装

●外形尺寸图 (单位: mm)



注1: *1 Taping code: TB, *2 Taping code: TB1

注2: *3 Taping code: TL, *4 Taping code: TL1

注3: *5 Packing code: —, *6 Packing code: C7 G

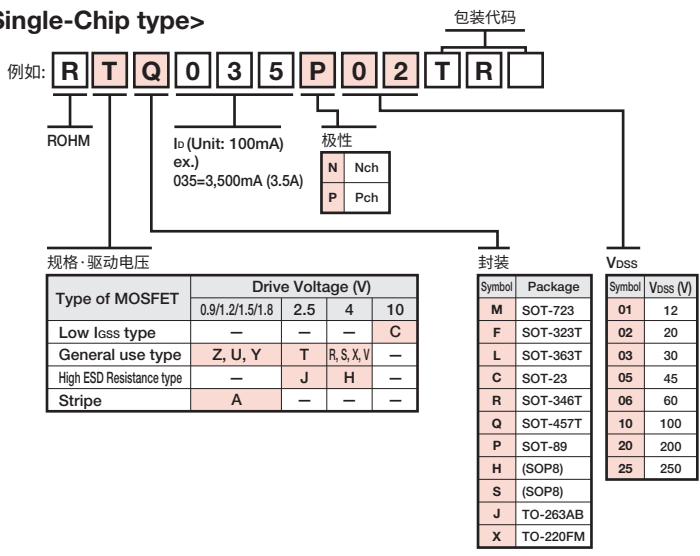
注4: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。〈 〉内表示GENERAL编号。

注5: 详细尺寸请参考规格书。

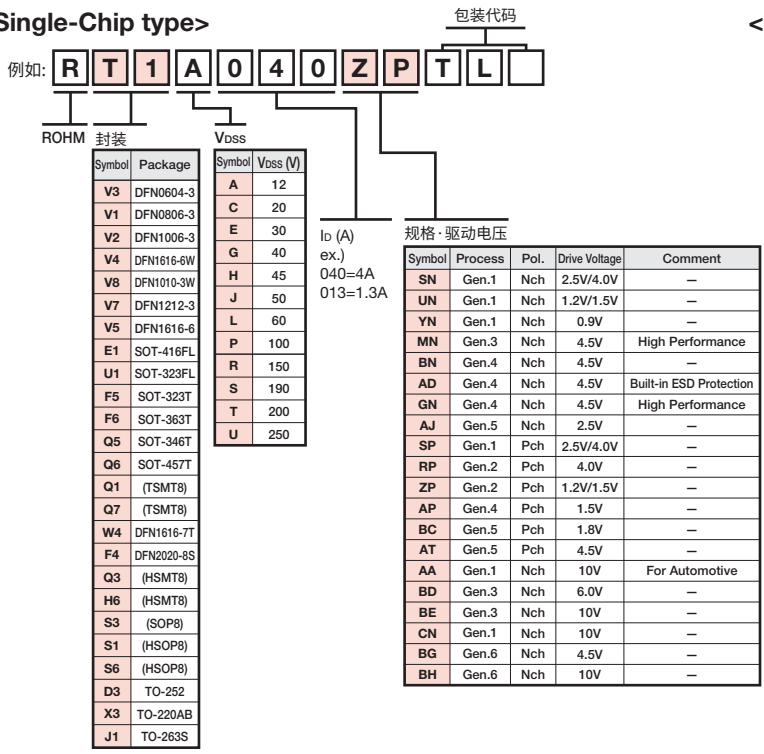
品名构成说明

• MOSFET品名构成说明

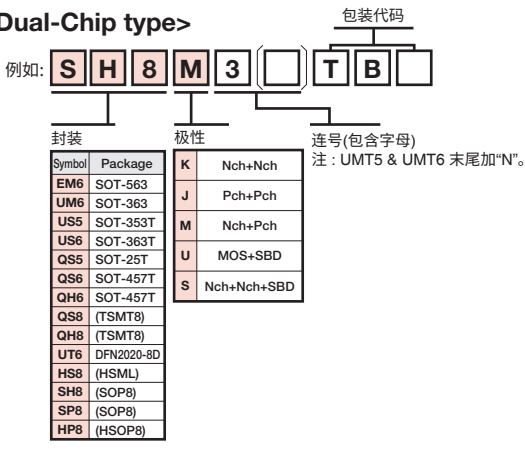
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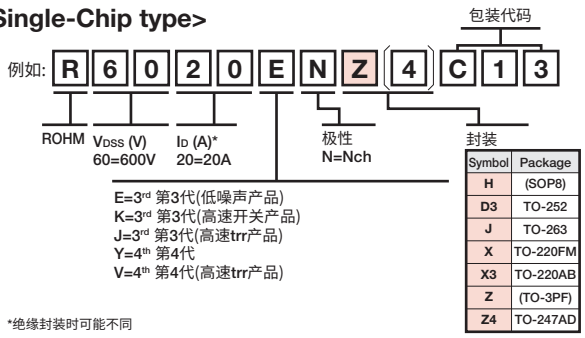
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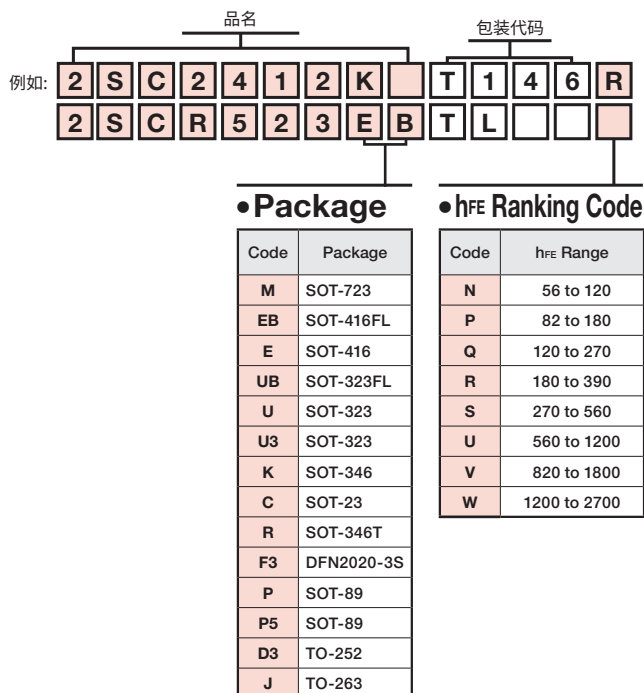
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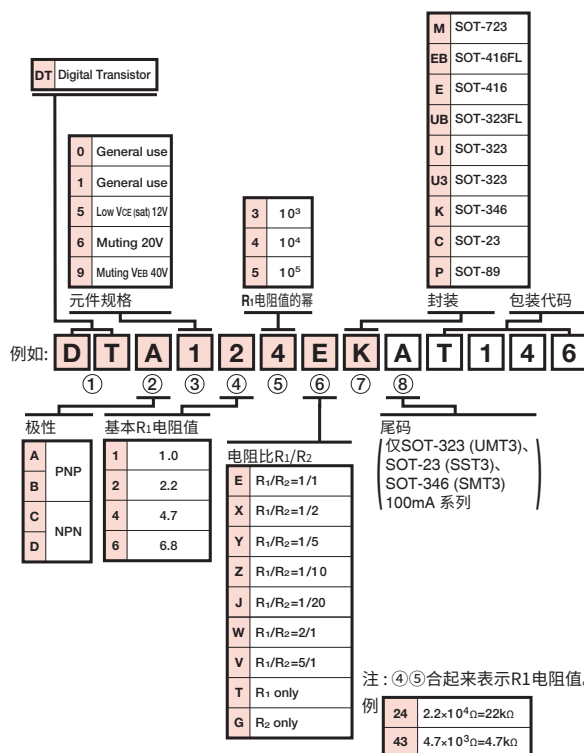
注: 封装采用JEDEC表示。()内表示ROHM封装。

品名构成说明

•双极晶体管品名构成说明



•数字晶体管品名构成说明



•封装类型

Package	Code	ROHM Package	JEITA code	Size (mm)	Height (mm)	Package Style	Direction	Quantity (pcs)
(DFN0604-3)	T2L, T2CL	VML0604	—	0604	0.36	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
(DFN0806-3)	T2L, T2CL	VML0806	—	0806	0.36	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
(DFN1006-3)	T2L, T2CL	VML1006	SC-101	1006	0.37	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
SOT-723	T2L, T2CL	VMT3	SC-105AA	1212	0.5	Embossed tape	One terminal on sprocket hole side	8,000
SOT-416FL	TL, TCL	EMT3F	SC-89	1616	0.7	Embossed tape	One terminal on sprocket hole side	3,000
SOT-416	TL, TCL	EMT3	SC-75A	1616	0.7	Embossed tape	One terminal on sprocket hole side	3,000
SOT-553	T2R, T2CR	EMT5	SC-107BB	1616	0.5	Embossed tape	Three terminals on sprocket hole side	8,000
SOT-563	T2R, T2CR	EMT6	SC-107C	1616	0.5	Embossed tape	Terminal No.1 on sprocket hole side	8,000
SOT-323FL	TL, TCL	UMT3F	SC-85	2120	0.9	Embossed tape	One terminal on sprocket hole side	3,000
SOT-323	T106, T306	UMT3	SC-70	2120	0.9	Embossed tape	One terminal on sprocket hole side	3,000
SOT-353	TR, TCR	UMT5	SC-88A	2120	0.9	Embossed tape	Three terminals on sprocket hole side	3,000
SOT-363	TR, TCR	UMT6	SC-88	2120	0.9	Embossed tape	Terminal No.1 on sprocket hole side	3,000
SOT-323T	TL, TCL	TUMT3	SC-113A	2120	0.77	Embossed tape	One terminal on sprocket hole side	3,000
SOT-353T	TR, TCR	TUMT5	SC-113CA	2120	0.77	Embossed tape	Terminal No.1 on sprocket hole side	3,000
SOT-363T	TR, TCR	TUMT6	SC-113DA	2120	0.77	Embossed tape	Terminal No.1 on sprocket hole side	3,000
SOT-23	T116, T316	SST3	SOT-23	2429	0.95	Embossed tape	One terminal on sprocket hole side	3,000
SOT-346	T146	SMT3	SC-59	2829	1.1	Embossed tape	One terminal on sprocket hole side	3,000
SOT-25	T148	SMT5	SC-74A	2829	1.1	Embossed tape	Three terminals on sprocket hole side	3,000
SOT-457	T108	SMT6	SC-74	2829	1.1	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
SOT-346T	TL, TCL	TSMT3	SC-96	2829	0.85	Embossed tape	One terminal on sprocket hole side	3,000
SOT-25T	TR, TCR	TSMT5	SC-95	2829	0.85	Embossed tape	Terminal No.1 on sprocket hole side	3,000
SOT-457T	TR, TCR	TSMT6	SC-95	2829	0.85	Embossed tape	Terminal No.1 on sprocket hole side	3,000
(TSMT8)	TR, TCR	TSMT8	—	2830	0.8	Embossed tape	Terminal No.1 on sprocket hole side	3,000
New DFN1010-3W	G2CR	—	—	1010	0.4	Embossed tape	Terminal No.1 on sprocket hole side	8,000
New DFN1212-3	TCR1	—	—	1212	0.45	Embossed tape	Terminal No.1 on sprocket hole side	3,000
DFN1616-6	TCR1	—	—	1616	0.75	Embossed tape	Terminal No.1 on sprocket hole side	3,000
DFN1616-6W	TCR1	—	—	1616	0.75	Embossed tape	Terminal No.1 on sprocket hole side	3,000
(DFN1616-7T)	TCL1	HEML1616L7	—	1616	0.6	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
(DFN2020-3S)	TR, TCR	HUML2020L3	—	2020	0.6	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
(DFN2020-8)	TR, TCR, TR1	HUML2020L8	—	2020	0.6	Embossed tape	Terminal No.1 on sprocket hole side	3,000
(HSML3030L10)	TB	HSML3030L10	—	3030	0.6	Embossed tape	Terminal No.1 on sprocket hole side	3,000
(DFN3333-9DC)	TCR1	HSML3333L9	—	3333	0.75	Embossed tape	Terminal No.1 on sprocket hole side	1,000
(HSMT8)	TB, TB1	HSMT8	—	3333	0.8	Embossed tape	Terminal No.1 on sprocket hole side	3,000
SOT-89	T100	MPT3	SC-62	4045	1.5	Embossed tape	Three terminals on sprocket hole side	1,000
(SOP8)	TB, TB1	SOP8	—	6050	1.75	Embossed tape	Terminal No.1 on sprocket hole side	2,500
(HSOP8)	TB, TB1	HSOP8	SC-111BB	6050	1	Embossed tape	Three terminals on sprocket hole side	2,500
TO-252	TL, TL1	TO-252	SC-63	10.0×6.6	2.2	Embossed tape	Fin on sprocket hole side	2,500
TO-263	TL	LPTS	SC-83	13.1×10.1	4.5	Embossed tape	Fin on sprocket hole side	1,000
	TLL	LPTL	—	15.1×10.1	4.5	Embossed tape	Fin on sprocket hole side	1,000
(TO-220FP)	—	TO-220FM	—	29×10	4.5	Bulk	—	500
	C7 G	—	—	—	4.7	Tube	—	1,000
Leaded type New TO-220AB	C16	TO-220AB	SC-46	29.07×10.16	4.5	Tube	—	1,000
New (TO-3PF)	C17	TO-3PF	—	43.8×15.5	5.5	Tube	—	300
	C13	TO-247	—	41.26×15.94	5.02	Tube	—	600
TO-247AD	C11	TO-247N	—	41×16	5	Tube	—	450

注：封装采用JEDEC表示。()内表示ROHM封装, < >内表示GENERAL编号。

二极管

肖特基势垒二极管	P.191	快速恢复二极管	P.204
整流二极管	P.208	齐纳二极管	P.209
保护元件	P.211	双向齐纳二极管	P.211
TVS	P.212	开关二极管	P.215
高频二极管	P.216	封装	P.217
品名构成说明	P.219		

肖特基势垒二极管

●小信号肖特基势垒二极管一览表

V _R (V)	I _O (mA)	Surface Mount type							
		0402 size		0603 size		1006 size			
		DSN0402-2 (SMD0402)		DSN0603-2 (SMD0603)		DSN0603-2 (SMD0603B)		DSN1006-2 (SMD1006)	SOD-923 (VMN2M)
20	2,000							RASMID™ RB061QS-20	5
30	30								RB751CM-40
	100	RASMID™ <i>New</i> RB522FS-30	1	RASMID™ RB522ES-30	2				RB520CM-30 RB521CM-30 RB530CM-30 RB531CM-30
	200					RASMID™ RB520HS-30 RASMID™ RB532HS-30	3 4		
40	100								RB530CM-40 RB531CM-40 RB520CM-40 RB521CM-40
	1,000							RASMID™ RB161QS-40	6
	1,500							<i>New</i> RASMID™ RB160QS-40	7
60	100								RB530CM-60 RB520CM-60

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RASMID™是ROHM Co., Ltd.的商标或注册商标。
注：封装采用JEDEC表示。()内表示ROHM封装。

☆：开发中

肖特基势垒二极管

●小信号肖特基势垒二极管一览表

V _R (V)	I _o (mA)	Surface Mount type											
		1608 size		2512 size		2514 size		1616 size		2120 size		2924 size	
													
		SOD-523 (EMD2)	SOD-323FL (UMD2)	SOD-323HE (TUMD2M)	SOT-416FL (EMD3F)	SOT-323FL (UMD3F)	SOT-323 (UMD3)					SOT-23 (SSD3)	
20	500		RB551VM-30	37	RB411VAM-50	62							
	700									RB461FM	117		
	1,000				RB162VAM-20 RB161VAM-20 RBE1VAM20A	63 64 65							
	2,000				RBE2VAM20A	66							
30	30	RB751SM-40	19	RB751VM-40	38								
	100	RB510SM-30	20	RB510VM-30	39			RB548WM	108				
		RB511SM-30	21	RB530VM-30	40			RB557WM	102				
		RB500SM-30	22	RB511VM-30	41			RB558WM	109				
		RB501SM-30	23	RB531VM-30	42								
	200	RB520SM-30	24	RB520VM-30	43							BAT54CHY	100
		RB521SM-30	25	RB521VM-30	44							BAT54AHY	106
		RB530SM-30	26	RB540VM-30	45							BAT54SHY	113
		RB531SM-30	27	RB541VM-30	46							BAT54HY	119
	500		RB550VM-30	47	RSX051VAM30 RSX051VYM30	67 68							
40	700				RSX071VAM30 RSX071VYM30	69 70							
	1,000				RB168VAM-30 RB168VYM-30 RB550VAM-30 RB550VYM-30 RSX101VAM30 RSX101VYM30	71 72 73 74 75 76							
	1,500				RSX201VAM30 RSX201VYM30	77 78							
	30						RB715WM RB706WM-40	96 110	RB715UM RB717UM RB706UM-40	97 103 111	RB706FM-40 RB715FM-40	105 99	
	80										RB508FM-40 RB508FM-40S RB508FM-40A RB508FM-40C	118 112 104 98	
	100	RB510SM-40 RB511SM-40 RB530SM-40 RB531SM-40	28 29 30 31	RB510VM-40 RB511VM-40 RB530VM-40 RB531VM-40 RB500VM-40 RB501VM-40	48 49 50 51 52 53				RB451UM RB450UM	115 116			
	120											BAS40-05HY BAS40-06HY BAS40-04HY BAS40HY	101 107 114 120
60	200	RB540SM-40 RB541SM-40 RB520SM-40 RB521SM-40	32 33 34 35	RB540VM-40 RB541VM-40 RB520VM-40 RB521VM-40 RB550VM-40 RB551VM-40	54 55 56 57 58 59								
	500			RB560VM-40 RB561VM-40	60 61	RB400VAM-50 RB400VYM-50	79 80						
	1,000					RB160VAM-40 RB160VYM-40 RB168VAM-40 RB168VYM-40	81 82 83 84						
90	200	RB521SM-60	36										
	1,000					RB160VAM-60 RB168VAM-60 RB168VYM-60	85 86 87						
100	700					RB021VAM90 RB578VAM100 RB578VYM100	88 89 90						
	1,000					RB168VAM100 RB168VYM100	91 92						
	500					RB558VAM150	93						
150	1,000					RB168VAM150 RB168VYM150	94 95						

注：封装采用JEDEC表示。()内表示ROHM封装。

肖特基势垒二极管

肖特基势垒二极管

例: **R B 7 5 1 S M - 4 0 F H T 2 R**
 型号 产品性能代码 封装代码

小信号肖特基势垒二极管1															
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _C =25°C)				Electrical Characteristics (T _J =25°C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O *1 (mA)	I _{FSM} (A)*2 60Hz.1 ~	V _F (V) Max	I _F (mA)	I _R (μA) Max	V _R (V)			
		General	Automotive												
1	RASID™ New RB522FS-30	*	—	T27R	30	30	100	0.5	0.37	10	7	10	DSN0402-2 (SMD0402)		—
2	RASID™ RB522ES-30		—	T15R	30	30	100	0.5	0.37	10	7	10	DSN0603-2 (SMD0603)		—
3	RASID™ RB520HS-30		—	T15R	30	30	200	1.5	0.43	10	0.3	10	DSN0603-2 (SMD0603B)		—
4	RASID™ RB532HS-30		—	T15R	30	30	200	1.5	0.3	10	15	10	DSN0603-2 (SMD0603B)		—
5	RASID™ RB061QS-20		—	T18R	20	20	2,000	15	0.47	2,000	200	10	DSN1006-2 (SMD1006)		—
6	RASID™ RB161QS-40		—	T18R	40	40	1,000	7	0.6	1,000	100	10			—
7	RASID™ New RB160QS-40		—	T18R	40	40	1,500	10	0.65	1,500	1	10			—
8	RB751CM-40		—	T2R	40	30	30	0.2	0.37	1	0.5	30	SOD-923 (VMN2M)		—
9	RB520CM-30		—	T2R	—	30	100	0.5	0.45	10	0.5	10			—
10	RB521CM-30		—	T2R	—	30	100	0.5	0.35	10	10	10			—
11	RB530CM-30		—	T2R	30	30	100	0.5	0.46	10	0.3	10			—
12	RB531CM-30		—	T2R	30	30	100	0.5	0.37	10	7	10			—
13	RB530CM-40		—	T2R	40	40	100	0.5	0.48	10	2	40			—
14	RB531CM-40		—	T2R	40	40	100	0.5	0.41	10	25	40			—
15	RB520CM-40		—	T2R	40	40	100	1	0.71	100	15	40			—
16	RB521CM-40		—	T2R	40	40	100	1	0.61	100	100	40			—
17	RB530CM-60		—	T2R	60	60	100	0.2	0.54	10	1	60			—
18	RB520CM-60		—	T2R	60	60	100	0.5	0.44	10	3	60			—
19	RB751SM-40		FH	T2R	40	30	30	0.2	0.37	1	0.5	30	SOD-523 (EMD2)		YES
20	RB510SM-30		—	T2R	30	30	100	0.5	0.46	10	0.3	10			—
21	RB511SM-30		—	T2R	30	30	100	0.5	0.37	10	7	10			—
22	RB500SM-30		FH	T2R	30	30	100	1	0.45	10	0.5	10			YES
23	RB501SM-30		FH	T2R	30	30	100	1	0.35	10	10	10			YES
24	RB520SM-30		FH	T2R	—	30	200	1	0.58	200	1	10			YES
25	RB521SM-30		FH	T2R	—	30	200	1	0.47	200	30	10			YES
26	RB530SM-30		FH	T2R	—	30	200	1	0.45	10	0.5	10			YES
27	RB531SM-30		FH	T2R	—	30	200	1	0.35	10	10	10			YES
28	RB510SM-40		FH	T2R	40	40	100	0.5	0.48	10	2	40			YES
29	RB511SM-40		—	T2R	40	40	100	0.5	0.41	10	25	40			—
30	RB530SM-40		FH	T2R	40	40	100	1	0.71	100	15	40			YES
31	RB531SM-40		—	T2R	40	40	100	1	0.61	100	100	40			—
32	RB540SM-40		—	T2R	40	40	200	1	0.71	100	15	40			—
33	RB541SM-40		—	T2R	40	40	200	1	0.61	100	100	40			—
34	RB520SM-40		FH	T2R	45	40	200	1	0.55	100	10	40			YES
35	RB521SM-40		FH	T2R	45	40	200	1	0.54	200	90	40			YES
36	RB521SM-60		FH	T2R	60	60	200	1	0.6	200	100	60			YES
37	RB551VM-30		—	TE-17	30	20	500	2	0.47	500	100	20	SOD-323FL (UMD2)		—
38	RB751VM-40		FH	TE-17	40	30	30	0.2	0.37	1	0.5	30			YES
39	RB510VM-30		FH	TE-17	30	30	100	0.5	0.46	10	0.3	10			YES
40	RB530VM-30		FH	TE-17	30	30	100	0.5	0.45	10	0.5	10			YES
41	RB511VM-30		—	TE-17	30	30	100	0.5	0.37	10	7	10			—
42	RB531VM-30		—	TE-17	30	30	100	1	0.49	100	10	10			—

◎ RAS MID™：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。

RAS MID™是ROHM Co., Ltd.的商标或注册商标。

* 一般产品的性能代码为空白。

*1 每个元件的平均输出电流为I_O(1个元件)、1/2 I_O(2个元件)或1/3 I_O(3个元件)。 *2 每个元件的规格。

注：封装采用JEDEC表示。()内表示ROHM封装。

肖特基势垒二极管

肖特基势垒二极管

例:

R	B	5	2	1	V	M	-	3	0	F	H	T	E	-	1	7
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

型号 产品性能代码 包装代码

小信号肖特基势垒二极管2																
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _C =25°C)				Electrical Characteristics (T _J =25°C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101	
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O *1 (mA)	I _{FSM} (A)*2 60Hz.1 ㉓	V _F (V) Max	I _F (mA)	I _R (μA) Max	V _R (V)				
		General	Automotive													
43	RB520VM-30	*	FH	TE-17	30	30	200	1	0.58	200	1	10	SOD-323FL (UMD2)		YES	
44	RB521VM-30		FH	TE-17	30	30	200	1	0.47	200	30	10			YES	
45	RB540VM-30		—	TE-17	30	30	200	1	0.45	10	0.5	10			—	
46	RB541VM-30		—	TE-17	30	30	200	1	0.64	200	10	10			—	
47	RB550VM-30		—	TE-17	30	30	500	1	0.59	500	35	30			—	
48	RB510VM-40		—	TE-17	40	40	100	0.5	0.48	10	2	40			—	
49	RB511VM-40		—	TE-17	40	40	100	0.5	0.41	10	25	40			—	
50	RB530VM-40		FH	TE-17	40	40	100	1	0.69	100	15	40			YES	
51	RB531VM-40		—	TE-17	40	40	100	1	0.61	100	100	40			—	
52	RB500VM-40		FH	TE-17	45	40	100	1	0.45	10	1	10			YES	
53	RB501VM-40		FH	TE-17	45	40	100	1	0.55	100	30	10			YES	
54	RB540VM-40		—	TE-17	40	40	200	1	0.71	100	15	40			—	
55	RB541VM-40		—	TE-17	40	40	200	1	0.61	100	100	40			—	
56	RB520VM-40		FH	TE-17	40	40	200	1	0.55	100	10	40			YES	
57	RB521VM-40		FH	TE-17	40	40	200	1	0.54	200	90	40			YES	
58	RB550VM-40		—	TE-17	40	40	200	1	0.51	200	40	40			—	
59	RB551VM-40		FH	TE-17	40	40	200	1	0.43	200	300	40			YES	
60	RB560VM-40		FH	TE-17	40	40	500	2	0.64	500	40	40			YES	
61	RB561VM-40		—	TE-17	40	40	500	2	0.56	500	300	40			—	
62	RB411VAM-50	*	—	TR	50	20	500	3	0.5	500	30	10	SOD-323HE (TUMD2M)		—	
63	RB162VAM-20		—	TR	25	20	1,000	5	0.4	1,000	1,200	20			—	
64	RB161VAM-20		—	TR	30	20	1,000	5	0.42	1,000	1,000	20			—	
65	RBE1VAM20A		—	TR	30	20	1,000	3	0.53	1,000	200	20			—	
66	RBE2VAM20A		—	TR	30	20	2,000	5	0.46	2,000	700	20			—	
67	RSX051VAM30		—	TR	30	30	500	5	0.39	500	200	30			—	
68	RSX051VYM30		—	FH	TR	30	30	500	5	0.39	500	200			30	YES
69	RSX071VAM30		*	—	TR	30	30	700	5	0.42	700	200			30	—
70	RSX071VYM30		—	FH	TR	30	30	700	5	0.42	700	200			30	YES
71	RB168VAM-30		*	—	TR	30	30	1,000	5	0.73	1,000	0.3			30	—
72	RB168VYM-30		—	FH	TR	30	30	1,000	5	0.73	1,000	0.3			30	YES
73	RB550VAM-30		*	—	TR	30	30	1,000	5	0.52	1,000	30			10	—
74	RB550VYM-30		—	FH	TR	30	30	1,000	3	0.52	1,000	30			10	YES
75	RSX101VAM30	*	—	TR	30	30	1,000	5	0.47	1,000	200	30	SOD-323HE (TUMD2M)		—	
76	RSX101VYM30		—	FH	TR	30	30	1,000	5	0.47	1,000	200	30		YES	
77	RSX201VAM30		*	—	TR	30	30	1,500	8	0.46	1,500	300	30		—	
78	RSX201VYM30		—	FH	TR	30	30	1,500	8	0.46	1,500	300	30		YES	
79	RB400VAM-50		*	—	TR	50	40	500	3	0.55	500	50	30		—	
80	RB400VYM-50		—	FH	TR	50	40	500	3	0.55	500	50	30		YES	
81	RB160VAM-40		*	—	TR	40	40	1,000	10	0.55	700	50	40		—	
82	RB160VYM-40		—	FH	TR	40	40	1,000	10	0.55	700	50	40		YES	
83	RB168VAM-40		*	—	TR	40	40	1,000	5	0.79	1,000	0.5	40		—	

* 一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)或1/3 Io(3个元件)。 *2 每个元件的规格。
注：封装采用JEDEC表示。()内表示ROHM封装。

肖特基势垒二极管

例: **R B 1 6 8 V Y M - 6 0 F H T R**
 型号 产品性能代码 包装代码

小信号肖特基势垒二极管3

Quick Reference No.	Product No.				Absolute Maximum Ratings (T _C =25°C)				Electrical Characteristics (T _J =25°C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101	
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O *1 (mA)	I _{FSM} (A)*2 60Hz.1 ~	V _F (V) Max	I _F (mA)	I _R (μA) Max	V _R (V)				
		General	Automotive													
84	RB168VYM-40	—	FH	TR	40	40	1,000	5	0.79	1,000	0.5	40	SOD-323HE (TUMD2M)		YES	
85	RB160VAM-60	*	—	TR	60	60	1,000	5	0.67	1,000	40	60			—	
86	RB168VAM-60	*	—	TR	60	60	1,000	5	0.82	1,000	1	60			—	
87	RB168VYM-60	—	FH	TR	60	60	1,000	5	0.82	1,000	1	60			YES	
88	RB021VAM90	*	—	TR	90	90	200	5	0.49	200	900	90			—	
89	RB578VAM100	*	—	TR	100	100	700	5	0.85	700	0.2	100			—	
90	RB578VYM100	—	FH	TR	100	100	700	5	0.85	700	0.2	100			YES	
91	RB168VAM100	*	—	TR	100	100	1,000	5	0.84	1,000	0.3	100			—	
92	RB168VYM100	—	FH	TR	100	100	1,000	5	0.84	1,000	0.3	100			YES	
93	RB558VAM150	*	—	TR	150	150	500	3	0.95	500	0.5	150			—	
94	RB168VAM150	*	—	TR	150	150	1,000	5	0.89	1,000	1	150			—	
95	RB168VYM150	—	FH	TR	150	150	1,000	5	0.89	1,000	1	150			YES	
96	RB715WM	*	FH	TL	40	40	30*2	0.2	0.37	1	1	10	SOT-416FL (EMD3F)		YES	
97	RB715UM		—	TL	40	40	30	0.2	0.37	1	1	10	SOT-323FL (UMD3F)		—	
98	RB508FM-40C		FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3)			YES
99	RB715FM-40		FH	T106	40	40	30	0.2	0.37	1	1	10				YES
100	BAT54CHY		FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)			YES
101	BAS40-05HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30				YES
102	RB557WM		—	TL	—	30	100*2	0.5	0.49	100	10	10	SOT-416FL (EMD3F)		—	
103	RB717UM		—	TL	45	40	30*2	0.2	0.37	1	1	30	SOT-323FL (UMD3F)		—	
104	RB508FM-40A		FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3)			YES
105	RB706FM-40		FH	T106	45	40	30	0.2	0.37	1	1	30				YES
106	BAT54AHY		FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)			YES
107	BAS40-06HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30				YES
108	RB548WM		—	TL	—	30	100*2	0.5	0.45	10	0.5	10	SOT-416FL (EMD3F)		—	
109	RB558WM		—	TL	—	30	100*2	0.5	0.49	100	10	10			—	
110	RB706WM-40		—	TL	45	40	30*2	0.2	0.37	1	0.5	30			—	
111	RB706UM-40		—	TL	45	40	30*2	0.2	0.37	1	1	30	SOT-323FL (UMD3F)		—	
112	RB508FM-40S		FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3)		YES	
113	BAT54SHY		FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)			YES
114	BAS40-04HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30		YES		
115	RB451UM		—	TL	40	40	100	1	0.45	100	90	40	SOT-323FL (UMD3F)		—	
116	RB450UM		—	TL	45	40	100	1	0.55	100	10	40			—	
117	RB461FM		FH	T106	25	20	700	3	0.49	700	200	20	SOT-323 (UMD3)		YES	
118	RB508FM-40		FH	T106	40	40	80	1	0.48	1	0.035	30			YES	
119	BAT54HY		FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES	
120	BAS40HY		FH	T116	40	40	120	0.6	0.5	10	1	30			YES	

* 一般产品的性能代码为空白。

*1 每个元件的平均输出电流为I_O(1个元件)、1/2 I_O(2个元件)或1/3 I_O(3个元件)。

*2 每个元件的规格。

注：封装采用JEDEC表示。()内表示ROHM封装。

肖特基势垒二极管

●中功率肖特基势垒二极管(高效率型)一览表

V _R (V)	I _O (A)	Surface Mount type									
		2513 size		3516 size				4725 size			5026 size
											
		(PMDE)		(PMDU) (SOD-123FL)				(PMDTM) (SOD-128)			DO-214AC (PMDS) (SMA)
		Low I _R type		Ultra Low V _F type		Low I _R type		Ultra Low V _F type		Low I _R type	Ultra Low V _F type
20	5							RSX501LAM20	2		
30	1			RSX101MM-30	1						
	2							RSX201LAM30 RSX205LAM30	3 4		RSX201L-30 RSX205L-30
	3							RSX301LAM30	5		RSX301L-30
100	2	New RBLQ2VWM10	9			New RBLQ2MM10	10				
	3								New RBLQ3LAM10	11	

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

●中功率肖特基势垒二极管(标准品)一览表

V _R (V)	I _O (A)	Surface Mount type									
		2513 size		3516 size				4725 size			5026 size
											
		(PMDE)		(PMDU) (SOD-123FL)				(PMDTM) (SOD-128)			DO-214AC (PMDS) (SMA)
		Low V _F type		Ultra Low I _R type		Ultra Low V _F type		Ultra Low I _R type		Low V _F type	Ultra Low I _R type
20	1			RBS1MM40A	12			RBS1LAM40A	18		
	2			RBS2MM40A	13			RBS2LAM40A	19		
				RBS2MM40B	14			RBS2LAM40B	20		
				RBS2MM40C	15			RBS2LAM40C	21		
	3			RBS3MM40A RBS3MM40B	16 17			RBS3LAM40A RBS3LAM40B RBS3LAM40C	22 23 24		
30	1	RBR1VWM30A	26	RB168VWM-30	87			RBR1LAM30A	48	RB168LAM-30	107
	2	RBR2VWM30A	27	RB068VWM-30	88			RBR2LAM30A	49	RB068LAM-30	108
	3					RBR3MM30A	35			RBR3LAM30A RBR3LAM30B	50 51
	5									RBR5LAM30A RBR5LAM30B	52 53
										RB088LAM-30	110
40	1	RBR1VWM40A	28	RB168VWM-40	89			RBR1LAM40A	54	RB168LAM-40	111
	2	RBR2VWM40A	29	RB068VWM-40	90			RBR2LAM40A	55	RB068LAM-40	112
	3					RBR3MM40A RBR3MM40B	40 41			RBR3LAM40A RBR3LAM40B RBR3LAM40C	56 57 58
	5									RBR5LAM40A	59
										RB088LAM-40	114
60	1	RBR1VWM60A	30	RB168VWM-60	91			RBR1LAM60A	60	RB168LAM-60	115
	2	RBR2VWM60A	31	RB068VWM-60	92			RBR2LAM60A RBR2LAM60B	61 62	RB068LAM-60	116
	3					RBR3MM60A RBR3MM60B	46 47			RBR3LAM60A RBR3LAM60B	63 64
	5									RBR5LAM60A	65
										RB088LAM-60	118
90	1					RB160MM-90	85			RB160LAM-90	86
100	1			RB168VWM100	93					RB168LAM100	119
	2			RB068VWM100	94					RB068LAM100	120
	3									RB058LAM100	121
	5									RB088LAM100	122
150	1			RB168VWM150	95			RB168MM150	105	RB168LAM150	123
	2			RB068VWM150	96					RB068LAM150	124
	3									RB058LAM150	125
	5									RB088LAM150	126
200								☆RB168MM200	106		

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

☆：开发中

肖特基势垒二极管

肖特基势垒二极管
例: RSX101MM-30 TFR
型号 产品性能代码 包装代码

中功率肖特基势垒二极管(高效率型)															
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _c =25°C)				Electrical Characteristics (T _j =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O (A)	I _{FSM} (A) 60Hz.1 ~	V _F (V) Max	I _R (mA)		V _R (V)			
		General	Automotive							Max	I _F (A)				
超低V _F 型															
1	RSX101MM-30	★	TF	TR	30	30	1	45	0.39	1	0.2	30	(PMDU) (SOD-123FL)		YES
2	RSX501LAM20	★	—	TR	20	20	5	100	0.39	3	0.5	20	(PMDTM) (SOD-128)		—
3	RSX201LAM30		TF	TR	30	30	2	60	0.44	2	0.15	30			YES
4	RSX205LAM30		TF	TR	30	30	2	60	0.49	2	0.2	30			YES
5	RSX301LAM30		TF	TR	30	30	3	100	0.42	3	0.2	15			YES
6	RSX201L-30	—	DD	TE25	30	30	2	60	0.44	2	0.15	30	DO-214AC (PMDS) (SMA)		YES
7	RSX205L-30		TF	TE25	30	30	2	60	0.49	2	0.2	30			YES
8	RSX301L-30		DD	TE25	30	30	3	70	0.42	3	0.2	30			YES
低I _R 型															
9	New RBLQ2VWM10	★	TF	TR	100	100	2	30	0.77	2	0.01	100	(PMDE)		YES
10	New RBLQ2MM10	★	TF	TR	100	100	2	30	0.77	2	0.01	100	(PMDU) (SOD-123FL)		YES
11	New RBLQ3LAM10	★	TF	TR	100	100	3	80	0.64	3	0.03	100	(PMDTM) (SOD-128)		YES
中功率肖特基势垒二极管(标准品)1															
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _c =25°C)				Electrical Characteristics (T _j =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O (A)	I _{FSM} (A) 60Hz.1 ~	V _F (V) Max	I _R (mA)		V _R (V)			
		General	Automotive							Max	I _F (A)				
超低V _F 型															
12	RBS1MM40A	★	—	TR	40	20	1	25	0.38	1	0.4	20	(PMDU) (SOD-123FL)		—
13	RBS2MM40A		—	TR	40	20	2	25	0.48	2	0.4	20			—
14	RBS2MM40B		—	TR	40	20	2	35	0.41	2	0.5	20			—
15	RBS2MM40C		—	TR	40	20	2	45	0.39	2	0.6	20			—
16	RBS3MM40A		—	TR	40	20	3	35	0.49	3	0.5	20			—
17	RBS3MM40B		—	TR	40	20	3	45	0.45	3	0.6	20			—
18	RBS1LAM40A	★	—	TR	40	20	1	40	0.38	1	0.4	20	(PMDTM) (SOD-128)		—
19	RBS2LAM40A		—	TR	40	20	2	40	0.48	2	0.4	20			—
20	RBS2LAM40B		—	TR	40	20	2	50	0.41	2	0.5	20			—
21	RBS2LAM40C		—	TR	40	20	2	80	0.37	2	0.8	20			—
22	RBS3LAM40A		—	TR	40	20	3	50	0.49	3	0.5	20			—
23	RBS3LAM40B		—	TR	40	20	3	60	0.45	3	0.6	20			—
24	RBS3LAM40C		—	TR	40	20	3	80	0.4	3	0.8	20			—
25	RBS5LAM40A		—	TR	40	20	5	80	0.49	5	0.8	20			—
低V _F 型															
26	RBR1VWM30A	★	TF	TR	30	30	1	30	0.48	1	0.05	30	(PMDE)		YES
27	RBR2VWM30A		TF	TR	30	30	2	30	0.53	2	0.05	30			YES
28	RBR1VWM40A		TF	TR	40	40	1	20	0.52	1	0.05	40			YES
29	RBR2VWM40A		TF	TR	40	40	2	20	0.62	2	0.05	40			YES
30	RBR1VWM60A		TF	TR	60	60	1	20	0.53	1	0.075	60			YES
31	RBR2VWM60A		TF	TR	60	60	2	20	0.65	2	0.075	60			YES
32	RBR1MM30A	★	TF	TR	30	30	1	30	0.48	1	0.05	30	(PMDU) (SOD-123FL)		YES
33	RBR2MM30A		TF	TR	30	30	2	30	0.53	2	0.05	30			YES
34	RBR2MM30B		TF	TR	30	30	2	30	0.49	2	0.08	30			YES
35	RBR3MM30A		TF	TR	30	30	3	30	0.51	3	0.1	30			YES
36	RBR1MM40A		TF	TR	40	40	1	20	0.52	1	0.05	40			YES
37	RBR2MM40A		TF	TR	40	40	2	20	0.62	2	0.05	40			YES
38	RBR2MM40B		TF	TR	40	40	2	30	0.55	2	0.08	40			YES
39	RBR2MM40C		TF	TR	40	40	2	30	0.52	2	0.1	40			YES
40	RBR3MM40A		TF	TR	40	40	3	30	0.62	3	0.08	40			YES
41	RBR3MM40B		TF	TR	40	40	3	30	0.58	3	0.1	40			YES
42	RBR1MM60A		TF	TR	60	60	1	20	0.53	1	0.075	60			YES
43	RBR2MM60A		TF	TR	60	60	2	20	0.65	2	0.075	60			YES
44	RBR2MM60B		TF	TR	60	60	2	30	0.58	2	0.1	60			YES
45	RBR2MM60C		TF	TR	60	60	2	30	0.55	2	0.12	60			YES
46	RBR3MM60A		TF	TR	60	60	3	30	0.66	3	0.1	60			YES
47	RBR3MM60B		TF	TR	60	60	3	30	0.61	3	0.12	60			YES
48	RBR1LAM30A	★	TF	TR	30	30	1	40	0.48	1	0.05	30	(PMDTM) (SOD-128)		YES
49	RBR2LAM30A		TF	TR	30	30	2	45	0.49	2	0.08	30			YES
50	RBR3LAM30A		TF	TR	30	30	3	40	0.58	3	0.05	30			YES
51	RBR3LAM30B		TF	TR	30	30	3	45	0.53	3	0.08	30			YES
52	RBR5LAM30A		TF	TR	30	30	5	75	0.54	5	0.1	30			YES
53	RBR5LAM30B		TF	TR	30	30	5	100	0.49	5	0.15	30			YES
54	RBR1LAM40A		TF	TR	40	40	1	40	0.52	1	0.05	40			YES
55	RBR2LAM40A		TF	TR	40	40	2	45	0.55	2	0.08	40			YES
56	RBR3LAM40A		TF	TR	40	40	3	40	0.69	3	0.05	40			YES
57	RBR3LAM40B		TF	TR	40	40	3	45	0.62	3	0.08	40			YES
58	RBR3LAM40C		TF	TR	40	40	3	75	0.55	3	0.1	40			YES
59	RBR5LAM40A		TF	TR	40	40	5	100	0.53	5	0.2	40			YES
60	RBR1LAM60A		TF	TR	60	60	1	40	0.53	1	0.075	60			YES
61	RBR2LAM60A		TF	TR	60	60	2	40	0.65	2	0.075	60			YES
62	RBR2LAM60B		TF	TR	60	60	2	75	0.52	2	0.15	60			YES
63	RBR3LAM60A		TF	TR	60	60	3	45	0.66	3	0.1	60			YES
64	RBR3LAM60B		TF	TR	60	60	3	75	0.56	3	0.15	60			YES
65	RBR5LAM60A		TF	TR	60	60	5	100	0.55	5	0.25	60			YES

* 一般产品的性能代码为空白。
注：封装采用JEDEC表示。()内表示ROHM封装，< >内表示GENERAL编号。

肖特基势垒二极管

肖特基势垒二极管

例: RBR1L30A DD TE25

中功率肖特基势垒二极管(标准品)2

Quick Reference No.	Product No.				Absolute Maximum Ratings (T _c =25°C)				Electrical Characteristics (T _j =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101	
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O (A)	I _{FSM} (A) 60Hz.1 ~	V _F (V) Max	I _R (mA)		V _R (V)				
		General	Automotive							I _F (A)	Max					
低V _F 型																
66	RBR1L30A	—	DD	TE25	30	30	1	30	0.48	1	0.05	30	DO-214AC (PMDS) (SMA)		YES	
67	RBR2L30A		DD	TE25	30	30	2	40	0.49	2	0.08	30			YES	
68	RBR3L30A		DD	TE25	30	30	3	30	0.58	3	0.05	30			YES	
69	RBR3L30B		DD	TE25	30	30	3	40	0.53	3	0.08	30			YES	
70	RBR5L30A		DD	TE25	30	30	5	50	0.54	5	0.1	30			YES	
71	RBR5L30B		DD	TE25	30	30	5	50	0.49	5	0.15	30			YES	
72	RBR1L40A		DD	TE25	40	40	1	30	0.52	1	0.05	40			YES	
73	RBR2L40A		DD	TE25	40	40	2	40	0.55	2	0.08	40			YES	
74	RBR3L40A		DD	TE25	40	40	3	30	0.69	3	0.05	40			YES	
75	RBR3L40B		DD	TE25	40	40	3	40	0.62	3	0.08	40			YES	
76	RBR3L40C		DD	TE25	40	40	3	50	0.55	3	0.1	40			YES	
77	RBR5L40A		DD	TE25	40	40	5	50	0.53	5	0.2	40			YES	
78	RBR1L60A		DD	TE25	60	60	1	30	0.53	1	0.075	60			YES	
79	RBR2L60A		DD	TE25	60	60	2	30	0.65	2	0.075	60			YES	
80	RBR2L60B		DD	TE25	60	60	2	50	0.52	2	0.15	60			YES	
81	RBR3L60A		DD	TE25	60	60	3	40	0.66	3	0.1	60			YES	
82	RBR3L60B		DD	TE25	60	60	3	50	0.56	3	0.15	60			YES	
83	RBR5L60A		DD	TE25	60	60	5	50	0.55	5	0.25	60			YES	
84	RB160L-90	—	TF	TE25	95	90	1	30	0.73	1	0.1	90	DO-214AC (PMDS) (SMA)		YES	
85	RB160MM-90	*	TF	TR	90	90	1	30	0.73	1	0.1	90	(PMDU) (SOD-123FL)		YES	
86	RB160LAM-90	*	TF	TR	95	90	1	50	0.73	1	0.1	90	(PMDTM) (SOD-128)		YES	
超低I _R 型																
87	RB168VWM-30	*	TF	TR	30	30	1	30	0.69	1	0.0006	30	(PMDE)		YES	
88	RB068VWM-30		TF	TR	30	30	2	30	0.75	2	0.0006	30			YES	
89	RB168VWM-40		TF	TR	40	40	1	30	0.69	1	0.0005	40			YES	
90	RB068VWM-40		TF	TR	40	40	2	30	0.79	2	0.0005	40			YES	
91	RB168VWM-60		TF	TR	60	60	1	30	0.76	1	0.0005	60			YES	
92	RB068VWM-60		TF	TR	60	60	2	30	0.84	2	0.0005	60			YES	
93	RB168VWM100		TF	TR	100	100	1	25	0.84	1	0.0003	100			YES	
94	RB068VWM100		TF	TR	100	100	2	25	0.94	2	0.0003	100			YES	
95	RB168VWM150	*	TF	TR	150	150	1	25	0.89	1	0.001	150	(PMDU) (SOD-123FL)		YES	
96	RB068VWM150		TF	TR	150	150	2	25	0.96	2	0.001	150			YES	
97	RB168MM-30		TF	TR	30	30	1	30	0.69	1	0.0006	30			YES	
98	RB068MM-30		TF	TR	30	30	2	50	0.7	2	0.0008	30			YES	
99	RB168MM-40		TF	TR	40	40	1	40	0.65	1	0.00055	40			YES	
100	RB068MM-40		TF	TR	40	40	2	40	0.725	2	0.00055	40			YES	
101	RB168MM-60		TF	TR	60	60	1	40	0.68	1	0.0015	60			YES	
102	RB068MM-60		TF	TR	60	60	2	40	0.765	2	0.0015	60			YES	
103	RB168MM100	*	TF	TR	100	100	1	40	0.81	1	0.0004	100	(PMDU) (SOD-123FL)		YES	
104	RB068MM100		TF	TR	100	100	2	40	0.87	2	0.0004	100			YES	
105	RB168MM150		TF	TR	150	150	1	35	0.84	1	0.004	150			YES	
106	☆RB168MM200		TF	TR	200	200	1	35	0.89	1	0.00085	200			YES	
107	RB168LAM-30	*	TF	TR	30	30	1	40	0.69	1	0.0006	30	(PMDTM) (SOD-128)		YES	
108	RB068LAM-30		TF	TR	30	30	2	50	0.7	2	0.0008	30			YES	
109	RB058LAM-30		TF	TR	30	30	3	80	0.68	3	0.0025	30			YES	
110	RB088LAM-30		TF	TR	30	30	5	80	0.69	5	0.0025	30			YES	
111	RB168LAM-40		TF	TR	40	40	1	40	0.69	1	0.0005	40			YES	
112	RB068LAM-40		TF	TR	40	40	2	50	0.69	2	0.001	40			YES	
113	RB058LAM-40		TF	TR	40	40	3	90	0.69	3	0.0025	40			YES	
114	RB088LAM-40		TF	TR	40	40	5	90	0.71	5	0.0036	40			YES	
115	RB168LAM-60		TF	TR	60	60	1	40	0.68	1	0.0015	60			YES	
116	RB068LAM-60		TF	TR	60	60	2	70	0.68	2	0.002	60			YES	
117	RB058LAM-60		TF	TR	60	60	3	90	0.64	3	0.004	60			YES	
118	RB088LAM-60		TF	TR	60	60	5	90	0.71	5	0.004	60			YES	
119	RB168LAM100		TF	TR	100	100	1	40	0.81	1	0.0004	100			YES	
120	RB068LAM100		TF	TR	100	100	2	70	0.81	2	0.0015	100			YES	
121	RB058LAM100		TF	TR	100	100	3	80	0.81	3	0.003	100			YES	
122	RB088LAM100		TF	TR	100	100	5	80	0.87	5	0.003	100			YES	
123	RB168LAM150		TF	TR	150	150	1	50	0.84	1	0.0025	150			YES	
124	RB068LAM150		TF	TR	150	150	2	70	0.81	2	0.003	150			YES	
125	RB058LAM150		TF	TR	150	150	3	80	0.84	3	0.003	150			YES	
126	RB088LAM150		TF	TR	150	150	5	80	0.9	5	0.003	150			YES	
127	RB168L-30	—	TF	TE25	30	30	1	30	0.69	1	0.0006	30	DO-214AC (PMDS) (SMA)		YES	
128	RB068L-30		DD	TE25	30	30	2	60	0.7	2	0.0008	30			YES	
129	RB058L-30		DD	TE25	30	30	3	90	0.68	3	0.0025	30			YES	
130	RB168L-40		TF	TE25	40	40	1	50	0.65	1	0.00055	40			YES	
131	RB068L-40		DD	TE25	40	40	2	50	0.69	2	0.001	40			YES	
132	RB058L-40		DD	TE25	40	40	3	100	0.7	3	0.005	40			YES	
133	RB168L-60		TF	TE25	60	60	1	50	0.68	1	0.0015	60			YES	
134	RB068L-60		DD	TE25	60	60	2	90	0.68	2	0.002	60			YES	
135	RB058L-60		DD	TE25	60	60	3	120	0.64	3	0.004	60			YES	
136	RB168L100		DD	TE25	100	100	1	50	0.81	1	0.0004	100			YES	
137	RB068L100		DD	TE25	100	100	2	110	0.79	2	0.003	100			YES	
138	RB168L150		DD	TE25	150	150	1	50	0.84	1	0.004	150			YES	
139	RB068L150		DD	TE25	150	150	2	90	0.81	2	0.003	150			YES	
140	RB058L150		DD	TE25	150	150	3	90	0.85	3	0.003	150			YES	

* 一般产品的性能代码为空白。

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

☆：开发中

肖特基势垒二极管

●功率肖特基势垒二极管(高效率型)一览表

V _R (V)	I _O (A)	Surface Mount type			
					
		(TO-252GE) (DPAK) Low I _R type	TO-252 (DPAK) Low I _R type	TO-263L (D2PAK) Low I _R type	TO-277A (TO-277GE) Low I _R type
100	10				New RBLQ10RSM10
	20	New RBLQ20BGE10	2 New RBLQ20BM10	3 ☆RBLQ20NL10S ☆RBLQ20NL10C	4 6
	30			☆RBLQ30NL10S	5

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

☆：开发中

●功率肖特基势垒二极管(标准品)一览表1

V _R (V)	I _O (A)	Surface Mount type											
													
		(TO-252GE) (DPAK)					TO-252 (DPAK)						
		Low V _F type		Low I _R type		Ultra Low I _R type		Low V _F type		Low I _R type		Ultra Low I _R type	
30	5					RB078BGE30S	82					RB078BM30S	93
	6					RB098BGE-30	83					RB098BM-30	94
	10	RBR10BGE30A	7			RB088BGE-30	84	RBR10BM30A	16			RB088BM-30	95
	15	RBR15BGE30A	8					RBR15BM30A	17				
	20	RBR20BGE30A	9					RBR20BM30A	18				
	30												
	40												
40	6					RB098BGE-40	85					RB098BM-40	96
	10	RBR10BGE40A	10			RB088BGE-40	86	RBR10BM40A	19			RB088BM-40	97
	15	RBR15BGE40A	11					RBR15BM40A	20				
	20	RBR20BGE40A	12					RBR20BM40A	21				
	30												
	40												
45	10			RBQ10BGE45A	46					RBQ10BM45A	54		
	15			RBQ15BGE45A	47					RBQ15BM45A	55		
	16												
	20			RBQ20BGE45A	48					RBQ20BM45A	56		
	30												
60	6					RB098BGE-60	87					RB098BM-60	98
	10	RBR10BGE60A	13			RB088BGE-60	88	RBR10BM60A	22			RB088BM-60	99
	15	RBR15BGE60A	14					RBR15BM60A	23				
	20	RBR20BGE60A	15					RBR20BM60A	24				
	30												
	40												
65	10			RBQ10BGE65A	49					RBQ10BM65A	57		
	15			RBQ15BGE65A	50					RBQ15BM65A	58		
	20			RBQ20BGE65A	51					RBQ20BM65A	59		
	30												
90	6												
	10												
100	6					RB098BGE100	89					RB098BM100	100
	10		New	RBQ10BGE10A	52	RB088BGE100	90			RBQ10BM100A	60	RB088BM100	101
	15		New	RBQ15BGE10A	53					RBQ15BM100A	61		
	20									RBQ20BM100A	62		
	30												
	40												
150	6					RB098BGE150	91					RB098BM150	102
	10					RB088BGE150	92					RB088BM150	103
	20												
	30												
	40												
200	10											RB088BM200	104
	20											RB218BM200	105

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

肖特基势垒二极管

●功率肖特基势垒二极管(标准品)一览表2

V _R (V)	I _O (A)	Surface Mount type					Through Hole type				
											
		(TO-263S) (D2PAK)			TO-263L (D2PAK)		(TO-220FN) <3pin>			(TO-220FN) <2pin>	
		Low V _F type	Low I _R type	Ultra Low I _R type	Low I _R type		Low V _F type	Low I _R type	Ultra Low I _R type	Low I _R type	
30	5										
	6										
	10	RBR10NS30A	25	RB088NS-30	106		RBR10T30A	37		RB088T-30	129
	15										
	20	RBR20NS30A	26	RB218NS-30	107		RBR20T30A	38		RB218T-30	130
	30	RBR30NS30A	27	RB228NS-30	108		RBR30T30A	39		RB228T-30	131
	40	RBR40NS30A	28	RB238NS-30	109					RB238T-30	132
40	6										
	10	RBR10NS40A	29	RB088NS-40	110		RBR10T40A	40		RB088T-40	133
	15										
	20	RBR20NS40A	30	RB218NS-40	111		RBR20T40A	41		RB218T-40	134
	30	RBR30NS40A	31	RB228NS-40	112		RBR30T40A	42		RB228T-40	135
	40	RBR40NS40A	32	RB238NS-40	113					RB238T-40	136
45	10		RBQ10NS45A	63	☆RBQ10NL45B	73		RBQ10T45A	75		
	15										
	16				☆RBQ16NL45B	74					
	20		RBQ20NS45A	64				RBQ20T45A	76		
	30		RBQ30NS45A RBQ30NS45B	65 72				RBQ30T45A	77		RBQ30TB45B 81
60	6										
	10	RBR10NS60A	33	RB088NS-60 RB218NS-60	114 115		RBR10T60A	43		RB088T-60 RB218T-60	137 138
	15										
	20	RBR20NS60A	34	RB228NS-60	116		RBR20T60A	44		RB228T-60	139
	30	RBR30NS60A	35	RB238NS-60	117		RBR30T60A	45		RB238T-60	140
	40	RBR40NS60A	36								
65	10		RBQ10NS65A	66				RBQ10T65A	78		
	15										
	20		RBQ20NS65A	67				RBQ20T65A	79		
	30		RBQ30NS65A	68				RBQ30T65A	80		
90	6										
	10										
100	6										
	10		RBQ10NS100A	69	RB088NS100	118				RB088T100	141
	15										
	20		RBQ20NS100A	70	RB218NS100	119				RB218T100	142
	30		RBQ30NS100A	71	RB228NS100 RB298NS100	120 121				RB228T100 RB298T100	143 144
	40				RB238NS100	122				RB238T100	145
150	6										
	10				RB088NS150	123				RB088T150	146
	20				RB218NS150	124				RB218T150	147
	30				RB228NS150	125				RB228T150	148
	40				RB238NS150	126				RB238T150	149
200	10				RB088NS200	127					
	20				RB218NS200	128					

注：封装采用JEDEC表示。()内表示ROHM封装, < >内表示GENERAL编号。 ☆：开发中

肖特基势垒二极管



功率肖特基势垒二极管(高效率型)															
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _c =25°C)				Electrical Characteristics (T _j =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O *1 (A)	I _{FSM} (A)*2 60Hz.1 ~	V _F (V) Max	I _F (A)	I _R (mA) Max	V _R (V)			
		General	Automotive												
低I _R 型															
1	New RBLQ10RSM10	★	TF	TL	100	100	10	200	0.67	10	0.08	100	TO-277A (TO-277GE)		YES
2	New RBLQ20BGE10	★	—	TL	100	100	20	150	0.86	20	0.08	100	(TO-252GE) (DPAK)		—
3	New RBLQ20BM10	—	FH	TL	100	100	20	150	0.86	20	0.08	100	TO-252 (DPAK)		YES
4	☆RBLQ20NL10S	★	FH	TL	100	100	20	200	0.86	20	0.08	100	TO-263L (D2PAK)		YES
5	☆RBLQ30NL10S		FH	TL	100	100	30	200	0.86	30	0.15	100			YES
6	☆RBLQ20NL10C		FH	TL	100	100	20	150	0.71	10	0.07	100			YES
功率肖特基势垒二极管(标准品)1															
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _c =25°C)				Electrical Characteristics (T _j =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O *1 (A)	I _{FSM} (A)*2 60Hz.1 ~	V _F (V) Max	I _F (A)	I _R (mA) Max	V _R (V)			
		General	Automotive												
低V _F 型															
7	RBR10BGE30A	★	—	TL	30	30	10	50	0.55	5	0.1	30	(TO-252GE) (DPAK)		—
8	RBR15BGE30A		—	TL	30	30	15	100	0.51	7.5	0.2	30			—
9	RBR20BGE30A		—	TL	30	30	20	100	0.51	10	0.3	30			—
10	RBR10BGE40A		—	TL	40	40	10	50	0.62	5	0.12	40			—
11	RBR15BGE40A		—	TL	40	40	15	100	0.55	7.5	0.24	40			—
12	RBR20BGE40A		—	TL	40	40	20	100	0.55	10	0.36	40			—
13	RBR10BGE60A		—	TL	60	60	10	50	0.65	5	0.2	60			—
14	RBR15BGE60A		—	TL	60	60	15	100	0.58	7.5	0.4	60			—
15	RBR20BGE60A		—	TL	60	60	20	100	0.59	10	0.6	60			—
16	RBR10BM30A	—	FH	TL	30	30	10	50	0.55	5	0.1	30	TO-252 (DPAK)		YES
17	RBR15BM30A		FH	TL	30	30	15	100	0.51	7.5	0.2	30			YES
18	RBR20BM30A		FH	TL	30	30	20	100	0.51	10	0.3	30			YES
19	RBR10BM40A		FH	TL	40	40	10	50	0.62	5	0.12	40			YES
20	RBR15BM40A		FH	TL	40	40	15	100	0.55	7.5	0.24	40			YES
21	RBR20BM40A		FH	TL	40	40	20	100	0.55	10	0.36	40			YES
22	RBR10BM60A		FH	TL	60	60	10	50	0.65	5	0.2	60			YES
23	RBR15BM60A		FH	TL	60	60	15	100	0.58	7.5	0.4	60			YES
24	RBR20BM60A		FH	TL	60	60	20	100	0.59	10	0.6	60			YES
25	RBR10NS30A	★	FH	TL	30	30	10	50	0.55	5	0.1	30	(TO-263S) (D2PAK)		YES
26	RBR20NS30A		FH	TL	30	30	20	100	0.55	10	0.2	30			YES
27	RBR30NS30A		FH	TL	30	30	30	100	0.55	15	0.3	30			YES
28	RBR40NS30A		FH	TL	30	30	40	100	0.52	20	0.6	30			YES
29	RBR10NS40A		FH	TL	40	40	10	50	0.62	5	0.12	40			YES
30	RBR20NS40A		FH	TL	40	40	20	100	0.62	10	0.24	40			YES
31	RBR30NS40A		FH	TL	40	40	30	100	0.62	15	0.36	40			YES
32	RBR40NS40A		FH	TL	40	40	40	100	0.55	20	0.43	40			YES
33	RBR10NS60A		FH	TL	60	60	10	50	0.65	5	0.2	60			YES
34	RBR20NS60A		FH	TL	60	60	20	100	0.64	10	0.4	60			YES
35	RBR30NS60A		FH	TL	60	60	30	100	0.67	15	0.6	60			YES
36	RBR40NS60A		FH	TL	60	60	40	100	0.6	20	0.8	60			YES
37	RBR10T30A	NZ	—	C9	30	30	10	50	0.55	5	0.1	30	(TO-220FN) <3pin>		—
38	RBR20T30A	NZ	—	C9	30	30	20	100	0.55	10	0.2	30			—
39	RBR30T30A	NZ	—	C9	30	30	30	100	0.55	15	0.3	30			—
40	RBR10T40A	NZ	—	C9	40	45	10	50	0.62	5	0.12	40			—
41	RBR20T40A	NZ	—	C9	40	45	20	100	0.62	10	0.24	40			—
42	RBR30T40A	NZ	—	C9	40	45	30	100	0.62	15	0.36	40			—
43	RBR10T60A	NZ	—	C9	60	60	10	50	0.65	5	0.2	60			—
44	RBR20T60A	NZ	—	C9	60	60	20	100	0.64	10	0.4	60			—
45	RBR30T60A	NZ	—	C9	60	60	30	100	0.67	15	0.6	60			—

* 一般产品的性能代码为空白。
*1 每个元件的平均输出电流为IO (1个元件)、1/2IO(2个元件)。
*2 每个元件的规格。
注：封装采用JEDEC表示。()内表示ROHM封装，< >内表示GENERAL编号。
☆：开发中

肖特基势垒二极管

肖特基势垒二极管

例: R B Q 1 0 B M 4 5 A F H T L
型号 产品性能代码 封装代码

功率肖特基势垒二极管(标准品)2

Quick Reference No.	Product No.				Absolute Maximum Ratings (T _C =25°C)				Electrical Characteristics (T _J =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O *1 (A)	I _{FSM} (A)*2 60Hz.1 ~	V _F (V) Max	I _F (A)	I _R (mA) Max	V _R (V)			
		General	Automotive												
低I _R 型															
46	RBQ10BGE45A	*	—	TL	45	45	10	50	0.65	5	0.07	45	(TO-252GE) (DPAK)		—
47	RBQ15BGE45A		—	TL	45	45	15	100	0.59	7.5	0.14	45			—
48	RBQ20BGE45A		—	TL	45	45	20	100	0.59	10	0.2	45			—
49	RBQ10BGE65A		—	TL	65	65	10	50	0.69	5	0.07	65			—
50	RBQ15BGE65A		—	TL	65	65	15	100	0.63	7.5	0.14	65			—
51	RBQ20BGE65A		—	TL	65	65	20	100	0.63	10	0.2	65			—
52	New RBQ10BGE10A		—	TL	100	100	10	100	0.77	5	0.08	100			—
53	New RBQ15BGE10A		—	TL	100	100	15	100	0.71	7.5	0.14	100			—
54	RBQ10BM45A	—	FH	TL	45	45	10	50	0.65	5	0.07	45	TO-252 (DPAK)		YES
55	RBQ15BM45A		FH	TL	45	45	15	100	0.59	7.5	0.14	45			YES
56	RBQ20BM45A		FH	TL	45	45	20	100	0.59	10	0.2	45			YES
57	RBQ10BM65A		FH	TL	65	65	10	50	0.69	5	0.07	65			YES
58	RBQ15BM65A		FH	TL	65	65	15	100	0.63	7.5	0.14	65			YES
59	RBQ20BM65A		FH	TL	65	65	20	100	0.63	10	0.2	65			YES
60	RBQ10BM100A		FH	TL	100	100	10	100	0.77	5	0.08	100			YES
61	RBQ15BM100A		FH	TL	100	100	15	100	0.71	7.5	0.14	100			YES
62	RBQ20BM100A	*	FH	TL	100	100	20	100	0.69	10	0.2	100	(TO-263S) (D2PAK)		YES
63	RBQ10NS45A		FH	TL	45	45	10	100	0.65	5	0.07	45			YES
64	RBQ20NS45A		FH	TL	45	45	20	100	0.65	10	0.14	45			YES
65	RBQ30NS45A		FH	TL	45	45	30	100	0.65	15	0.2	45			YES
66	RBQ10NS65A		FH	TL	65	65	10	100	0.69	5	0.07	65			YES
67	RBQ20NS65A		FH	TL	65	65	20	100	0.69	10	0.14	65			YES
68	RBQ30NS65A		FH	TL	65	65	30	100	0.69	15	0.2	65			YES
69	RBQ10NS100A		FH	TL	100	100	10	100	0.77	5	0.08	100			YES
70	RBQ20NS100A		FH	TL	100	100	20	100	0.77	10	0.14	100			YES
71	RBQ30NS100A		FH	TL	100	100	30	100	0.77	15	0.2	100			YES
72	RBQ30NS45B		FH	TL	45	45	30	100	0.59	30	0.7	45			YES
73	☆RBQ10NL45B		FHH	TL	45	45	10	150	0.62	10	0.1	45		TO-263L (D2PAK)	
74	☆RBQ16NL45B	FHH	TL	45	45	16	150	0.61	16	0.1	45			YES	
75	RBQ10T45A	NZ	—	C9	45	45	10	100	0.65	5	0.07	45	(TO-220FN) <3pin>		—
76	RBQ20T45A	NZ	—	C9	45	45	20	100	0.65	10	0.14	45			—
77	RBQ30T45A	NZ	—	C9	45	45	30	100	0.65	15	0.2	45			—
78	RBQ10T65A	NZ	—	C9	65	65	10	100	0.69	5	0.07	65			—
79	RBQ20T65A	NZ	—	C9	65	65	20	100	0.69	10	0.14	65			—
80	RBQ30T65A	NZ	—	C9	65	65	30	100	0.69	15	0.2	65			—
81	RBQ30TB45B	NZ	—	C9	45	45	30	100	0.59	30	0.7	45	(TO-220FN) <2pin>		—

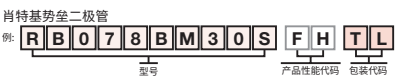
* 一般产品的产品性能代码为空白。

*1 每个元件的平均输出电流为I_O (1个元件)、1/2I_O(2个元件)。

*2 每个元件的规格。

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

☆：开发中



功率肖特基势垒二极管(标准品)3																	
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _c =25° C)				Electrical Characteristics (T _j =25° C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101		
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O *1 (A)	I _{FSM} (A)*2 60Hz.1 ~	V _F (V) Max	I _F (A)	I _R (mA) Max	V _R (V)					
		General	Automotive														
超低I _R 型																	
82	RB078BGE30S	*	—	TL	35	30	5	50	0.72	5	0.005	30	(TO-252GE) (DPAK)		—		
83	RB098BGE-30		—	TL	35	30	6	50	0.72	3	0.0015	30			—		
84	RB088BGE-30		—	TL	35	30	10	50	0.72	5	0.003	30			—		
85	RB098BGE-40		—	TL	45	40	6	50	0.77	3	0.0015	40			—		
86	RB088BGE-40		—	TL	45	40	10	50	0.77	5	0.003	40			—		
87	RB098BGE-60		—	TL	60	60	6	50	0.83	3	0.0015	60			—		
88	RB088BGE-60		—	TL	60	60	10	50	0.83	5	0.003	60			—		
89	RB098BGE100		—	TL	110	100	6	100	0.77	3	0.003	100			—		
90	RB088BGE100		—	TL	100	100	10	50	0.87	5	0.005	100			—		
91	RB098BGE150		—	TL	150	150	6	100	0.83	3	0.007	150			—		
92	RB088BGE150		—	TL	150	150	10	50	0.88	5	0.015	150			—		
93	RB078BM30S	—	FH	TL	35	30	5	50	0.72	5	0.005	30	TO-252 (DPAK)		YES		
94	RB098BM-30		FH	TL	35	30	6	50	0.72	3	0.0015	30			YES		
95	RB088BM-30		FH	TL	35	30	10	50	0.72	5	0.003	30			YES		
96	RB098BM-40		FH	TL	45	40	6	50	0.77	3	0.0015	40			YES		
97	RB088BM-40		FH	TL	45	40	10	50	0.77	5	0.003	40			YES		
98	RB098BM-60		FH	TL	60	60	6	50	0.83	3	0.0015	60			YES		
99	RB088BM-60		FH	TL	60	60	10	50	0.83	5	0.003	60			YES		
100	RB098BM100		FH	TL	110	100	6	100	0.77	3	0.003	100			YES		
101	RB088BM100		FH	TL	100	100	10	100	0.87	5	0.005	100			YES		
102	RB098BM150		FH	TL	150	150	6	100	0.83	3	0.007	150			YES		
103	RB088BM150		FH	TL	150	150	10	100	0.88	5	0.015	150			YES		
104	RB088BM200	FH	TL	200	200	10	100	0.88	5	0.007	200		YES				
105	RB218BM200	FH	TL	200	200	20	100	0.88	10	0.01	200		YES				
106	RB088NS-30	*	FH	TL	35	30	10	50	0.72	5	0.003	30	(TO-263S) (D2PAK)		YES		
107	RB218NS-30		FH	TL	35	30	20	100	0.72	10	0.005	30			YES		
108	RB228NS-30		FH	TL	35	30	30	100	0.72	15	0.01	30			YES		
109	RB238NS-30		FH	TL	35	30	40	100	0.75	20	0.012	30			YES		
110	RB088NS-40		FH	TL	45	40	10	50	0.77	5	0.003	40			YES		
111	RB218NS-40		FH	TL	45	40	20	100	0.77	10	0.005	40			YES		
112	RB228NS-40		FH	TL	45	40	30	100	0.77	15	0.01	40			YES		
113	RB238NS-40		FH	TL	45	40	40	100	0.8	20	0.012	40			YES		
114	RB088NS-60		FH	TL	60	60	10	50	0.83	5	0.003	60			YES		
115	RB218NS-60		FH	TL	60	60	20	100	0.83	10	0.005	60			YES		
116	RB228NS-60		FH	TL	60	60	30	100	0.83	15	0.01	60			YES		
117	RB238NS-60		FH	TL	60	60	40	100	0.86	20	0.012	60			YES		
118	RB088NS100		FH	TL	110	100	10	100	0.87	5	0.005	100			YES		
119	RB218NS100		FH	TL	110	100	20	100	0.87	10	0.007	100			YES		
120	RB228NS100		FH	TL	110	100	30	100	0.87	15	0.01	100			YES		
121	RB238NS100		FH	TL	110	100	40	100	0.86	20	0.02	100			YES		
122	RB088NS150		FH	TL	150	150	10	50	0.88	5	0.015	150			YES		
123	RB218NS150		FH	TL	150	150	20	100	0.88	10	0.02	150			YES		
124	RB228NS150		FH	TL	150	150	30	100	0.88	15	0.025	150			YES		
125	RB238NS150		FH	TL	150	150	40	100	0.87	20	0.03	150			YES		
126	RB088NS200		FH	TL	200	200	10	100	0.88	5	0.007	200			YES		
127	RB218NS200		FH	TL	200	200	20	100	0.88	10	0.01	200			YES		
128	RB238T150		FH	TL	200	200	20	100	0.88	10	0.01	200			YES		
129	RB088T-30		NZ	—	C9	35	30	10	50	0.72	5	0.003		30	(TO-220FN) <3pin>		—
130	RB218T-30		NZ	—	C9	35	30	20	100	0.72	10	0.005		30			—
131	RB228T-30	NZ	—	C9	35	30	30	100	0.72	15	0.01	30		—			
132	RB238T-30	NZ	—	C9	35	30	40	100	0.75	20	0.012	30		—			
133	RB088T-40	NZ	—	C9	45	40	10	50	0.77	5	0.003	40		—			
134	RB218T-40	NZ	—	C9	45	40	20	100	0.77	10	0.005	40		—			
135	RB228T-40	NZ	—	C9	45	40	30	100	0.77	15	0.01	40		—			
136	RB238T-40	NZ	—	C9	45	40	40	100	0.8	20	0.012	40		—			
137	RB088T-60	NZ	—	C9	60	60	10	50	0.83	5	0.003	60		—			
138	RB218T-60	NZ	—	C9	60	60	20	100	0.83	10	0.005	60		—			
139	RB228T-60	NZ	—	C9	60	60	30	100	0.83	15	0.01	60		—			
140	RB238T-60	NZ	—	C9	60	60	40	100	0.86	20	0.012	60		—			
141	RB088T100	NZ	—	C9	110	100	10	100	0.87	5	0.005	100		—			
142	RB218T100	NZ	—	C9	110	100	20	100	0.87	10	0.007	100		—			
143	RB228T100	NZ	—	C9	110	100	30	100	0.87	15	0.005	100		—			
144	RB298T100	NZ	—	C9	110	100	30	100	0.87	15	0.01	100		—			
145	RB238T100	NZ	—	C9	110	100	40	100	0.86	20	0.02	100		—			
146	RB088T150	NZ	—	C9	150	150	10	50	0.88	5	0.015	150		—			
147	RB218T150	NZ	—	C9	150	150	20	100	0.88	10	0.02	150		—			
148	RB228T150	NZ	—	C9	150	150	30	100	0.88	15	0.025	150		—			
149	RB238T150	NZ	—	C9	150	150	40	100	0.87	20	0.03	150		—			

* 一般产品的性能代码为空白。
*1 每个元件的平均输出电流为I_O (1个元件)、1/2I_O(2个元件)。
*2 每个元件的规格。
注：封装采用JEDEC表示。()内表示ROHM封装，< >内表示GENERAL编号。

快速恢复二极管

●小信号/中功率快速恢复二极管一览表



V _R (V)	I _O (A)	Surface Mount type													
															
		1608 Size SOD-523 (EMD2)	2512 Size SOD-323FL (UMD2)	2514 Size (TUMD2M)		2513 size (PMDE)		3516 Size (PMDU) (SOD-123FL)		4725 Size (PMDTM) (SOD-128)		5026 size DO-214AC (PMDS) (SMA)		2928 Size SOT-457T (TSM6)	
100	0.5			RF05VAM1S RF05VYM1S	3 4										
200	0.4													RF04UA2D	36
	0.5			RF05VAM2S RF05VYM2S	5 6				RFC02MM2S	11					
	0.7								RF071MM2S	12					
	0.8								RF081MM2S	13					
	1						☆RFN1VWM2S	9			RF101LAM2S	14	RF101L2S	26	
	1.1										RF081LAM2S	15	RF081L2S	27	
	2						☆RFN2VWM2S	10			RF201LAM2S RF202LAM2S	16 17	RF201L2S	28	
	3										RF302LAM2S	18			
250	0.1		RF01VM2S	2											
400	1										RF071LAM4S RF101LAM4S	19 20	RF071L4S RF101L4S	29 30	
	1.5										RF201LAM4S RFN2LAM4S	21 22	RF201L4S RFN2L4S	31 32	
450	0.1	RFU01SM4S	1												
600	0.2					RFU02VSM6S	7								
	0.8										RFN1LAM6S	23	RFN1L6S	33	
	1.5										RFN2LAM6S	24	RFN2L6S	34	
700	0.8										RFN1LAM7S	25	RFN1L7S	35	
800	0.2					RFU02VSM8S	8								

注：封装采用JEDEC表示。()内表示ROHM封装, < >内表示GENERAL编号。

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小信号/中功率快速恢复二极管																	
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _C =25° C or Tl=25° C)				Electrical Characteristics (T _J =25° C)*1								Package
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O (A)	I _{FSM} (A) 60Hz, 1 〰	V _F (V) Max	I _F (A)	I _R (μA) Max	V _R (V)	trr (ns) Max	I _F (A)	I _R (A)		Equivalent Circuit Diagram
		General	Automotive														
1	RFU01SM4S	★	—	T2R	450	450	0.1	1	1.8	0.1	10	450	35	0.1	0.1	SOD-523 (EMD2)	—
2	RF01VM2S		FH	TE-17	250	250	0.1	1	1.2	0.1	10	250	50	*2		SOD-323FL (UMD2)	YES
3	RF05VAM1S		—	TR	100	100	0.5	6	0.98	0.5	10	100	25	0.5	1	(TUMD2M)	—
4	RF05VYM1S	—	FH	TR	100	100	0.5	6	0.98	0.5	10	100	25	0.5	1		YES
5	RF05VAM2S	★	—	TR	200	200	0.5	6	0.98	0.5	10	200	25	0.5	1		—
6	RF05VYM2S	—	FH	TR	200	200	0.5	6	0.98	0.5	10	200	25	0.5	1	(TUMD2SM)	YES
7	RFU02VSM6S	★	—	TR	600	600	0.2	1	2.2	0.2	10	600	35	0.1	0.1		—
8	RFU02VSM8S		—	TR	800	800	0.2	1	3	0.2	10	800	35	0.1	0.1		—
9	☆RFN1VWM2S		TF	TR	200	200	1	10	0.93	1	1	200	25	0.5	1	(PMDE)	YES
10	☆RFN2VWM2S	★	TF	TR	200	200	2	10	0.99	2	1	200	25	0.5	1		YES
11	RFC02MM2S		TF	TR	200	200	0.5	10	0.95	0.5	1	200	35	0.1	0.2	(PMDU) (SOD-123FL)	YES
12	RF071MM2S	★	TF	TR	200	200	0.7	15	0.85	0.7	10	200	25	0.5	1		YES
13	RF081MM2S		TF	TR	200	200	0.8	20	0.95	0.8	10	200	25	0.5	1		YES
14	RF101LAM2S	★	TF	TR	200	200	1	20	0.87	1	10	200	25	0.5	1	(PMDTM) (SOD-128)	YES
15	RF081LAM2S		TF	TR	200	200	1.1	25	0.98	1	10	200	25	0.5	1		YES
16	RF201LAM2S		TF	TR	200	200	2	20	0.87	2	10	200	25	0.5	1		YES
17	RF202LAM2S	★	TF	TR	200	200	2	20	0.93	2	10	200	25	0.5	1	(PMDTM) (SOD-128)	YES
18	RF302LAM2S		TF	TR	200	200	3	20	0.92	3	10	200	25	0.5	1		YES
19	RF071LAM4S		TF	TR	400	400	1	15	1.25	0.7	10	400	25	0.5	1		YES
20	RF101LAM4S	★	TF	TR	400	400	1	25	1.25	1	10	400	25	0.5	1	(PMDTM) (SOD-128)	YES
21	RF201LAM4S		TF	TR	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1		YES
22	RFN2LAM4S		TF	TR	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1		YES
23	RFN1LAM6S	★	TF	TR	600	600	0.8	15	1.45	0.8	1	600	35	0.5	1	(PMDTM) (SOD-128)	YES
24	RFN2LAM6S		TF	TR	600	600	1.5	40	1.55	1.5	1	600	35	0.5	1		YES
25	RFN1LAM7S		TF	TR	700	700	0.8	15	1.5	0.8	1	700	80	0.5	1		YES
26	RF101L2S	★	DD	TE25	200	200	1	20	0.87	1	10	200	25	0.5	1	(PMDTM) (SOD-128)	YES
27	RF081L2S		TF	TE25	200	200	1.1	25	0.98	1	10	200	25	0.5	1		YES
28	RF201L2S		DD	TE25	200	200	2	20	0.87	2	10	200	25	0.5	1		YES
29	RF071L4S	★	TF	TE25	400	400	1	15	1.25	0.7	10	400	25	0.5	1	(PMDTM) (SOD-128)	YES
30	RF101L4S		TF	TE25	400	400	1	25	1.25	1	10	400	25	0.5	1		YES
31	RF201L4S		DD	TE25	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1		YES
32	RFN2L4S	★	DD	TE25	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1	(PMDTM) (SOD-128)	YES
33	RFN1L6S		DD	TE25	600	600	0.8	15	1.45	0.8	1	600	35	0.5	1		YES
34	RFN2L6S		DD	TE25	600	600	1.5	40	1.55	1.5	1	600	35	0.5	1		YES
35	RFN1L7S	★	DD	TE25	700	700	0.8	15	1.5	0.8	1	700	80	0.5	1		YES
36	RF04UA2D		FH	TR	200	200	0.4	1	0.98	0.2	10	200	25	0.5	1	SOT-457T (TSMD6)	YES

* 一般产品的产品性能代码为空白。

*1 每个元件的规格。 *2 V_{RM}=6V, I_R=10mA, I_{rr}=0.1×I_O

注：封装采用JEDEC表示。()内表示ROHM封装, < >内表示GENERAL编号。

☆：开发中

快速恢复二极管

●功率快速恢复二极管一览表

V _{RR} (V)	I _o (A)	Surface Mount type			Through Hole type						
											
		(TO-252GE) (DPAK)	TO-252 (DPAK)	(TO-263S) (D2PAK)	(TO-220FN) <2pin>	(TO-220FN) <3pin>	(TO-220NFM)	(TO-220AC)	(TO-220ACFP)	TO-247GE-2L	TO-247GE-3L
200	3	RF301BGE2S RFN3BGE2S	23 RF301BM2S 24 RFN3BM2S	38 39							
	5	RF501BGE2S RFN5BGE2S	25 RF501BM2S 26 RFN5BM2S	40 41							
	6	RF601BGE2D RFN6BGE2D	1 RF601BM2D 2 RFN6BM2D	3 4		RF601T2D RFN6T2D	10 11				
	10			RF1001NS2D	5	RF1001T2D RFN10T2D	12 13				
	16			RF1601NS2D	6	RF1601T2D RFN16T2D	14 15				
	20			RF2001NS2D	7	RF2001T2D RFN20T2D	16 17				
300	20			RF2001NS3D	8	RF2001T3D	18	RF1501TF3S	71		
350	5	RFN5BGE3S	27 RFN5BM3S	42							
	10	RFN10BGE3S	36 RFN10BM3S	51 RFN10NS3S	53						
	20			RFN20NS3S RFUH25NS3S RFUH20NS3S	54 55 56	RFUH25TB3S RFUH20TB3S	65 66				
430	10			RFN10NS4S RFUH10NS4S	57 58	RFN10TB4S RFUH10TB4S	67 68				
	20			RFN20NS4S RFUH20NS4S	59 60	RFN20TB4S RFUH20TB4S	69 70				
600	3	RFN3BGE6S RF305BGE6S	28 RFN3BM6S 29 RF305BM6S	43 44							
	5	RFN5BGE6S RFN5BGE6S RF505BGE6S RFV5BGE6S	30 RFN5BM6S 31 RFN5BM6S 32 RF505BM6S 33 RFV5BM6S	45 46 47 48			RFN5TF6S RF505TF6S RFUH5TF6S	72 73 74		RFN5TJ6S	86
	8	RFV8BGE6S	34 RFV8BM6S	49				RFV8TG6S	81 82	RFV8TJ6S	87 88
	10	RFN10BGE6S RFN10BGE6S	35 RFN10BM6S 37 RFN10BM6S	50 52	RFN10NS6S RFUH10NS6S	61 62	RFN10TF6S RF1005TF6S RFUH10TF6S	75 76 77		RFN10TJ6S	89
	12							RFV12TG6S	83	RFV12TJ6S	90
	15							RFV15TG6S	84	RFN15TJ6S RFV15TJ6S	91 92
	20			RFN20NS6S RFUH20NS6S	63 64		RFN20TF6S RFUH20TF6S	78 79		RFN20TJ6S RFN20TJ6S RFUH20TJ6S	93 94 95
	30							RFV30TG6S	85		
	30									New RFL30TZ6S New RFS30TZ6S	96 97
	60									New RFL60TZ6S New RFS60TZ6S	98 99
800	5						RFN5TF8S	80			
	10			RFN10NS8D	9						

注：封装采用JEDEC表示。()内表示ROHM封装，< >内表示GENERAL编号。

☆：开发中

快速恢复二极管

肖特基势垒二极管

例: **R****F****6****0****1****B****M****2****D****F****H****T****L**

型号
 产品性能代码
 封装代码

功率快速恢复二极管1																		
Quick Reference No.	Product No.			Absolute Maximum Ratings (T _C =25°C)					Electrical Characteristics (T _J =25° C)*2						Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101	
	Part No.	Grade Code General	Automotive	Taping Code	V _{RM} (V)	V _R (V)	I _O *1 (A)	I _{FSM} (A)*2 60Hz,1 s	V _F (V) Max	I _F (A)	I _R (μA) Max	V _R (V)	t _{rr} (ns) Max	I _F (A)				I _R (A)
1	RF601BGE2D	*	—	TL	200	200	6	60	0.93	3	10	200	25	0.5	1	(TO-252GE) (DPAK)		—
2	RFN6BGE2D		TL	200	200	6	40	0.98	3	10	200	25	0.5	1	—			
3	RF601BM2D	—	FH	TL	200	200	6	60	0.93	3	10	200	25	0.5	1	TO-252 (DPAK)		YES
4	RFN6BM2D		FH	TL	200	200	6	40	0.98	3	10	200	25	0.5	1	YES		
5	RF1001NS2D	*	FH	TL	200	200	10	80	0.93	5	10	200	25	0.5	1	(TO-263S) (D2PAK)		YES
6	RF1601NS2D		FH	TL	200	200	16	100	0.93	8	10	200	30	0.5	1			YES
7	RF2001NS2D		FH	TL	200	200	20	100	0.93	10	10	200	30	0.5	1			YES
8	RF2001NS3D		FH	TL	350	300	20	100	1.3	10	10	300	25	0.5	1			YES
9	RFN10NS8D		FH	TL	800	800	10	60	2.1	5	10	800	40	0.5	1			YES
10	RF601T2D	NZ	—	C9	200	200	6	60	0.93	3	10	200	25	0.5	1	(TO-220FN) <3pin>		—
11	RFN6T2D	NZ	—	C9	200	200	6	40	0.98	3	10	200	25	0.5	1		—	
12	RF1001T2D	NZ	—	C9	200	200	10	80	0.93	5	10	200	30	0.5	1		—	
13	RFN10T2D	NZ	—	C9	200	200	10	80	0.98	5	10	200	25	0.5	1		—	
14	RF1601T2D	NZ	—	C9	200	200	16	100	0.93	8	10	200	30	0.5	1		—	
15	RFN16T2D	NZ	—	C9	200	200	16	100	0.98	8	10	200	30	0.5	1		—	
16	RF2001T2D	NZ	—	C9	200	200	20	100	0.93	10	10	200	30	0.5	1		—	
17	RFN20T2D	NZ	—	C9	200	200	20	100	0.98	10	10	200	30	0.5	1		—	
18	RF2001T3D	NZ	—	C9	350	300	20	100	1.3	10	10	300	25	0.5	1	TO-247GE-3L	—	
19	☆RFL30TS6D	G	—	C13	650	650	30	100	1.5	15	5	650	45	0.5	1		—	
20	☆RFS30TS6D	G	—	C13	650	650	30	80	2.3	15	5	650	30	0.5	1		—	
21	☆RFL60TS6D	G	—	C13	650	650	60	180	1.5	30	5	650	55	0.5	1		—	
22	☆RFS60TS6D	G	—	C13	650	650	60	150	2.3	30	5	650	35	0.5	1		—	
23	RF301BGE2S	*	—	TL	200	200	3	40	0.93	3	10	200	25	0.5	1	(TO-252GE) (DPAK)		—
24	RFN3BGE2S			TL	200	200	3	40	0.98	3	10	200	25	0.5	1			—
25	RF501BGE2S			TL	200	200	5	40	0.92	5	1	200	25	0.5	1			—
26	RFN5BGE2S			TL	200	200	5	40	0.98	5	10	200	25	0.5	1			—
27	RFN5BGE3S			TL	350	350	5	50	1.5	5	10	350	30	0.5	1			—
28	RFN3BGE6S			TL	600	600	3	20	1.55	3	10	600	30	0.5	1			—
29	RF305BGE6S			TL	600	600	3	50	1.7	3	10	600	30	0.5	1			—
30	RFNL5BGE6S			TL	600	600	5	50	1.3	5	10	600	60	0.5	1			—
31	RFN5BGE6S			TL	600	600	5	30	1.55	5	10	600	50	0.5	1			—
32	RF505BGE6S			TL	600	600	5	50	1.7	5	10	600	30	0.5	1			—
33	RFV5BGE6S			TL	600	600	5	60	2.8	5	10	600	20	0.5	1			—
34	RFV8BGE6S			TL	600	600	8	100	2.8	8	10	600	25	0.5	1			—
35	RFNL10BGE6S			TL	600	600	10	100	1.25 1.3	8 10	10	600	65	0.5	1			—
36	RFN10BGE3S	*	—	TL	350	350	10	80	1.5	10	10	350	30	0.5	1		—	
37	RFN10BGE6S			TL	600	600	10	100	1.55	10	10	600	50	0.5	1		—	
38	RF301BM2S	—	FH	TL	200	200	3	40	0.93	3	10	200	25	0.5	1	TO-252 (DPAK)		YES
39	RFN3BM2S			TL	200	200	3	40	0.98	3	10	200	25	0.5	1			YES
40	RF501BM2S			TL	200	200	5	40	0.92	5	1	200	25	0.5	1			YES
41	RFN5BM2S			TL	200	200	5	40	0.98	5	10	200	25	0.5	1			YES
42	RFN5BM3S			TL	350	350	5	50	1.5	5	10	350	30	0.5	1			YES
43	RFN3BM6S			TL	600	600	3	20	1.55	3	10	600	30	0.5	1			YES
44	RF305BM6S			TL	600	600	3	50	1.7	3	10	600	30	0.5	1			YES
45	RFNL5BM6S			TL	600	600	5	50	1.3	5	10	600	60	0.5	1			YES
46	RFN5BM6S			TL	600	600	5	30	1.55	5	10	600	50	0.5	1			YES
47	RF505BM6S			TL	600	600	5	50	1.7	5	10	600	30	0.5	1			YES
48	RFV5BM6S			TL	600	600	5	60	2.8	5	10	600	20	0.5	1			YES
49	RFV8BM6S			TL	600	600	8	100	2.8	8	10	600	25	0.5	1			YES
50	RFNL10BM6S			FH	TL	600	600	10	100	1.25 1.3	8 10	10	600	65	0.5			1
51	RFN10BM3S	—	FH	TL	350	350	10	80	1.5	10	10	350	30	0.5	1	(TO-263S) (D2PAK)		YES
52	RFN10BM6S			TL	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
53	RFN10NS3S			TL	350	350	10	100	1.5	10	10	350	30	0.5	1			YES
54	RFN20NS3S			TL	350	350	20	100	1.35	20	10	350	35	0.5	1			YES
55	RFUH25NS3S			TL	350	350	20	100	1.45	20	10	350	30	0.5	1			YES
56	RFUH20NS3S			TL	350	350	20	100	1.5	20	10	350	25	0.5	1			YES
57	RFN10NS4S			TL	430	430	10	80	1.55	10	10	430	30	0.5	1			YES
58	RFUH10NS4S			TL	430	430	10	80	1.7	10	10	430	25	0.5	1			YES
59	RFN20NS4S			TL	430	430	20	100	1.55	20	10	430	30	0.5	1			YES
60	RFUH20NS4S			TL	430	430	20	100	1.7	20	10	430	25	0.5	1			YES
61	RFN10NS6S			TL	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
62	RFUH10NS6S			TL	600	600	10	60	2.8	10	10	600	25	0.5	1			YES
63	RFN20NS6S			TL	600	600	20	100	1.55	20	10	600	60	0.5	1			YES
64	RFUH20NS6S			TL	600	600	20	100	2.8	20	10	600	35	0.5	1			YES

* 一般产品的产品性能代码为空白。
 *1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)。 *2 每个元件的规格。
 注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

☆：开发中

肖特基势垒二极管
例: R F U H 2 5 T B 3 S N Z C 9
型号 产品性能代码 封装代码

功率快速恢复二极管2																		
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _C =25° C)				Electrical Characteristics (T _J =25° C)							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O (A)	I _{FSM} (A) 60Hz, 1 s	V _F (V) Max	I _R (μA)		trr (ns)		I _F (A)				
		General	Automotive							I _F (A)	Max	V _R (V)	Max	I _F (A)	I _R (A)			
65	RFUH25TB3S	NZ	—	C9	350	350	20	100	1.45	20	10	350	30	0.5	1	(TO-220FN) <2pin>		—
66	RFUH20TB3S	NZ	—	C9	350	350	20	100	1.5	20	10	350	25	0.5	1			—
67	RFN10TB4S	NZ	—	C9	430	430	10	80	1.7	10	10	430	25	0.5	1			—
68	RFUH10TB4S	NZ	—	C9	430	430	10	80	1.55	10	10	430	30	0.5	1			—
69	RFN20TB4S	NZ	—	C9	430	430	20	100	1.55	20	10	430	30	0.5	1			—
70	RFUH20TB4S	NZ	—	C9	430	430	20	100	1.7	20	10	430	25	0.5	1			—
71	RF1501TF3S	*	FH	C9	350	300	20	100	1.5	20	10	300	30	0.5	1	(TO-220NFM)		YES
72	RFN5TF6S		FH	C9	600	600	5	30	1.55	5	10	600	50	0.5	1			YES
73	RF505TF6S		FH	C9	600	600	5	80	1.7	5	10	600	30	0.5	1			YES
74	RFUH5TF6S		FH	C9	600	600	5	30	2.8	5	10	600	25	0.5	1			YES
75	RFN10TF6S		FH	C9	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
76	RF1005TF6S		FH	C9	600	600	10	100	1.7	10	10	600	40	0.5	1			YES
77	RFUH10TF6S		FH	C9	600	600	10	60	2.8	10	10	600	25	0.5	1			YES
78	RFN20TF6S		FH	C9	600	600	20	100	1.55	20	10	600	60	0.5	1			YES
79	RFUH20TF6S		FH	C9	600	600	20	100	2.8	20	10	600	35	0.5	1			YES
80	RFN5TF8S		FH	C9	800	800	5	60	2.1	5	10	800	40	0.5	1			YES
81	RFV8TG6S	G	—	C9	600	600	8	60	3	8	10	600	20	0.5	1	(TO-220AC)		—
82	RFV8TG6S	G	—	C9	600	600	8	100	2.8	8	10	600	25	0.5	1			—
83	RFV12TG6S	G	—	C9	600	600	12	120	2.8	12	10	600	25	0.5	1			—
84	RFV15TG6S	G	—	C9	600	600	15	150	2.8	15	10	600	30	0.5	1			—
85	RFV30TG6S	G	—	C9	600	600	30	200	2.8	30	10	600	40	0.5	1			—
86	RFNL5TJ6S	G	FHG	C9	600	600	5	50	1.3	5	10	600	60	0.5	1	(TO-220ACFP)		YES
87	RFV8TJ6S	G	—	C9	600	600	8	60	3	8	10	600	20	0.5	1			—
88	RFV8TJ6S	G	—	C9	600	600	8	100	2.8	8	10	600	25	0.5	1			—
89	RFNL10TJ6S	G	FHG	C9	600	600	10	120	1.25 1.3	8 10	10	600	65	0.5	1			YES
90	RFV12TJ6S	G	—	C9	600	600	12	120	2.8	12	10	600	25	0.5	1			—
91	RFNL15TJ6S	G	FHG	C9	600	600	15	160	1.3	15	10	600	65	0.5	1			YES
92	RFV15TJ6S	G	—	C9	600	600	15	150	2.8	15	10	600	30	0.5	1			—
93	RFNL20TJ6S	G	FHG	C9	600	600	20	200	1.3	20	10	600	70	0.5	1			YES
94	RFN20TJ6S	G	FHG	C9	600	600	20	150	1.55	20	10	600	60	0.5	1			YES
95	RFUH20TJ6S	G	FHG	C9	600	600	20	120	2.8	20	10	600	35	0.5	1			YES
96	New RFL30TZ6S	G	—	C13	650	650	30	200	1.5	30	5	650	55	0.5	1	TO-247GE-2L		—
97	New RFS30TZ6S	G	—	C13	650	650	30	160	2.3	30	5	650	35	0.5	1			—
98	New RFL60TZ6S	G	—	C13	650	650	60	320	1.5	60	10	650	75	0.5	1			—
99	New RFS60TZ6S	G	—	C13	650	650	60	250	2.3	60	10	650	55	0.5	1			—

* 一般产品的产品性能代码为空白。
注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

整流二极管

●整流二极管一览表

整流二极管

例:

R	R	1	V	W	M	4	S	T	F	T	R
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型号 产品性能代码 包装代码

	V_R (V)	I_O (A)	Surface Mount type								Through Hole type	
General Purpose Rectifier Diodes	400	0.2		RRE02VSM4S RRE02VTM4S	3 4							
		0.7		RRE07VSM4S RRE07VTM4S	5 6	RR264MM-400	11					
		1	RR1VWM4S	1		RR268MM-600	12	RR1LAM4S	13			
		2						RR2LAM4S	14			
	600	0.2		RRE02VSM6S RRE02VTM6S	7 8							
		0.7		RRE07VSM6S RRE07VTM6S	9 10							
		1	RR1VWM6S	2				RR1LAM6S	15			
		2						RR2LAM6S	16			
Power Rectifier Diodes	400	6								RR601BM4S	17	
	1,000	20									RRD20TJ10S	18

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

一般整流二极管

Quick Reference No.	Product No.				Absolute Maximum Ratings (T _C =25° C or T _I =25° C)				Electrical Characteristics (T _J =25° C)							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V _{RM} (V)	V _R (V)	I _O (A)	I _{FSM} (A) 60Hz, 1 min	V _F (V) Max	I _F (A)	I _R (μA) Max	V _R (V)	t _{rr} (ns) Max	I _F (mA)	I _R (mA)			
		General	Automotive															
1	RR1VWM4S	★	TF	TR	400	400	1	15	1.2	1	10	400	—	—	—	(PMDE)		YES
2	RR1VWM6S		TF	TR	600	600	1	15	1.2	1	10	600	—	—	—			YES
3	RRE02VSM4S		—	TR	400	400	0.2	1	1.1	0.2	1	400	—	—	—			—
4	RRE02VTM4S	—	FH	TR	400	400	0.2	1	1.1	0.2	1	400	—	—	—	YES		
5	RRE07VSM4S	★	—	TR	400	400	0.7	2	1.1	0.7	1	400	—	—	—	—		
6	RRE07VTM4S	—	FH	TR	400	400	0.7	2	1.1	0.7	1	400	—	—	—	YES		
7	RRE02VSM6S	★	—	TR	600	600	0.2	1	1.1	0.2	1	600	—	—	—	—		
8	RRE02VTM6S	—	FH	TR	600	600	0.2	1	1.1	0.2	1	600	—	—	—	YES		
9	RRE07VSM6S	★	—	TR	600	600	0.7	2	1.1	0.7	1	600	—	—	—	—		
10	RRE07VTM6S	—	FH	TR	600	600	0.7	2	1.1	0.7	1	600	—	—	—	YES		
11	RR264MM-400	★	TF	TR	400	400	0.7	25	1.1	0.7	10	400	—	—	—	(PMDU) (SOD-123FL)		YES
12	RR268MM-600		TF	TR	600	400	1	25	0.98	1	10	400	—	—	—			YES
13	RR1LAM4S		TF	TR	500	400	1	30	1.1	1	10	400	—	—	—	YES		
14	RR2LAM4S		TF	TR	400	400	2	50	1.1	2	10	400	—	—	—	YES		
15	RR1LAM6S		TF	TR	750	600	1	30	1.1	1	10	600	—	—	—	YES		
16	RR2LAM6S		TF	TR	600	600	2	50	1.1	2	10	600	—	—	—	YES		

功率整流二极管

17	RR601BM4S	★	FH	TL	400	400	6	40	1.1	6	10	400	—	—	—	TO-252 (DPAK)		YES
18	RRD20TJ10S	G	—	C9	1,000	1,000	20	200	1.05	20	10	1,000	—	—	—	(TO-220ACFP)		—

* 一般产品的产品性能代码为空白。

*1 I_{FRM}保证：放电波形t=500us(1/2peak), 1pulse/4s, R_{th}<80°C/W

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL编号。

齐纳二极管



齐纳二极管1																
Package	Surface Mount type															
	0603 size DSN0603-2 (SMD0603)				1006 size SOD-923 (VMN2M)				1608 size SOD-523 (EMD2)				2512 size SOD-323FL (UMD2)			
Equivalent Circuit Diagram																
Series Name	RASMD™ ADZ series				CDZV series				EDZV series				UFZV series			
Automotive Grade Code	—				—				FH				FH			
Power (mW)	100				100				150				500			
Taping Code	T15R				T2R				T2R				TE-17			
Electrical Characteristics (T _a =25° C)	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101
Voltage	—	—	—	—	2.0B	2.02 to 2.20	5	—	2.0B	2.02 to 2.20	5	—	—	—	—	—
	—	—	—	—	2.2B	2.22 to 2.41	5	—	2.2B	2.22 to 2.41	5	—	—	—	—	—
	—	—	—	—	2.4B	2.43 to 2.63	5	—	2.4B	2.43 to 2.63	5	—	—	—	—	—
	—	—	—	—	2.7B	2.69 to 2.91	5	—	2.7B	2.69 to 2.91	5	—	—	—	—	—
	—	—	—	—	3.0B	3.01 to 3.22	5	—	3.0B	3.01 to 3.22	5	—	—	—	—	—
	—	—	—	—	3.3B	3.32 to 3.53	5	—	3.3B	3.32 to 3.53	5	—	—	—	—	—
	—	—	—	—	3.6B	3.600 to 3.845	5	—	3.6B	3.600 to 3.845	5	YES	3.6B	3.580 to 3.836	20	—
	—	—	—	—	3.9B	3.89 to 4.16	5	—	3.9B	3.89 to 4.16	5	YES	3.9B	3.870 to 4.151	20	—
	—	—	—	—	4.3B	4.17 to 4.43	5	—	4.3B	4.17 to 4.43	5	YES	4.3B	4.151 to 4.423	20	—
	—	—	—	—	4.7B	4.55 to 4.75	5	—	4.7B	4.55 to 4.75	5	YES	4.7B	4.534 to 4.795	20	YES
	5.1B	4.975 to 5.230	5	—	5.1B	4.98 to 5.20	5	—	5.1B	4.98 to 5.20	5	YES	5.1B	4.940 to 5.200	20	YES
	5.6B	5.510 to 5.800	5	—	5.6B	5.49 to 5.73	5	—	5.6B	5.49 to 5.73	5	YES	5.6B	5.450 to 5.730	20	YES
	6.2B	6.020 to 6.335	5	—	6.2B	6.06 to 6.33	5	—	6.2B	6.06 to 6.33	5	YES	6.2B	5.976 to 6.307	20	YES
	6.8B	6.670 to 7.015	5	—	6.8B	6.65 to 6.93	5	—	6.8B	6.65 to 6.93	5	YES	6.8B	6.525 to 6.865	20	YES
	☆7.5B	7.330 to 7.710	5	—	7.5B	7.28 to 7.60	5	—	7.5B	7.28 to 7.60	5	YES	7.5B	7.104 to 7.509	20	YES
	8.2B	8.000 to 8.400	5	—	8.2B	8.02 to 8.36	5	—	8.2B	8.02 to 8.36	5	YES	8.2B	7.827 to 8.265	20	YES
	☆9.1B	8.750 to 9.190	5	—	9.1B	8.85 to 9.23	5	—	9.1B	8.85 to 9.23	5	YES	9.1B	8.635 to 9.106	20	YES
	☆10B	9.560 to 10.04	5	—	10B	9.77 to 10.21	5	—	10B	9.77 to 10.21	5	YES	10B	9.497 to 10.050	20	YES
	☆11B	10.54 to 11.08	5	—	11B	10.76 to 11.22	5	—	11B	10.76 to 11.22	5	YES	11B	10.550 to 11.160	10	YES
	☆12B	11.63 to 12.21	5	—	12B	11.74 to 12.24	5	—	12B	11.74 to 12.24	5	YES	12B	11.510 to 12.160	10	YES
	☆13B	12.85 to 13.49	5	—	13B	12.91 to 13.49	5	—	13B	12.91 to 13.49	5	YES	13B	12.640 to 13.340	10	YES
	☆15B	14.30 to 15.02	5	—	15B	14.34 to 14.98	5	—	15B	14.34 to 14.98	5	YES	15B	14.000 to 14.790	10	YES
	☆16B	15.96 to 16.76	5	—	16B	15.85 to 16.51	5	—	16B	15.85 to 16.51	5	YES	16B	15.390 to 16.240	10	YES
	☆18B	17.52 to 18.41	2	—	18B	17.56 to 18.35	2	—	18B	17.56 to 18.35	5	YES	18B	17.000 to 17.950	10	YES
	☆20B	19.63 to 20.63	2	—	20B	19.52 to 20.39	2	—	20B	19.52 to 20.39	5	YES	20B	18.870 to 19.890	10	YES
	—	—	—	—	22B	21.54 to 22.47	2	—	22B	21.54 to 22.47	5	YES	22B	20.770 to 21.920	5	YES
	—	—	—	—	24B	23.72 to 24.78	2	—	24B	23.72 to 24.78	5	YES	24B	22.780 to 24.020	5	YES
—	—	—	—	27B	26.19 to 27.53	2	—	27B	26.19 to 27.53	2	YES	27B	25.190 to 26.560	5	YES	
—	—	—	—	30B	29.19 to 30.69	2	—	30B	29.19 to 30.69	2	YES	30B	27.980 to 29.500	5	YES	
—	—	—	—	33B	32.15 to 33.79	2	—	33B	32.15 to 33.79	2	YES	33B	30.660 to 32.320	5	YES	
—	—	—	—	36B	35.07 to 36.87	2	—	36B	35.07 to 36.87	2	YES	36B	33.230 to 35.010	5	YES	
—	—	—	—	—	—	—	—	—	—	—	—	—	39B	35.880 to 37.790	5	YES
Package	Surface Mount type															
	2512 size SOD-323FL (UMD2)				2512 size SOD-323FL (UMD2)				2514 size (TUMD2M)				2514 size (TUMD2M)			
Equivalent Circuit Diagram																
Series Name	UDZV series				UDZLV series				TFZV series				YFZV series			
Automotive Grade Code	FH				FH				—				FH			
Power (mW)	200				200				500				500			
Taping Code	TE-17				TE-17				TR				TR			
Electrical Characteristics (T _a =25° C)	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101
Voltage	2.0B	2.02 to 2.20	5	—	51	48 to 54	2	YES	2.0B	2.02 to 2.20	20	—	—	—	—	—
	2.2B	2.22 to 2.41	5	—	56	53 to 60	2	YES	2.2B	2.22 to 2.41	20	—	—	—	—	—
	2.4B	2.43 to 2.63	5	—	62	58 to 66	2	YES	2.4B	2.43 to 2.63	20	—	—	—	—	—
	2.7B	2.69 to 2.91	5	YES	68	64 to 72	2	YES	2.7B	2.69 to 2.91	20	—	—	—	—	—
	3.0B	3.01 to 3.22	5	YES	75	70 to 79	2	YES	3.0B	3.01 to 3.22	20	—	3.0B	3.01 to 3.22	20	YES
	3.3B	3.32 to 3.53	5	YES	82	77 to 87	2	YES	3.3B	3.32 to 3.53	20	—	3.3B	3.32 to 3.53	20	YES
	3.6B	3.600 to 3.845	5	YES	91	85 to 96	1	YES	3.6B	3.600 to 3.845	20	—	3.6B	3.600 to 3.845	20	YES
	3.9B	3.89 to 4.16	5	YES	100	94 to 106	1	YES	3.9B	3.89 to 4.16	20	—	3.9B	3.89 to 4.16	20	YES
	4.3B	4.17 to 4.43	5	YES	110	104 to 116	1	YES	4.3B	4.17 to 4.43	20	—	4.3B	4.17 to 4.43	20	YES
	4.7B	4.55 to 4.75	5	YES	120	114 to 126	1	YES	4.7B	4.55 to 4.80	20	—	4.7B	4.55 to 4.80	20	YES
	5.1B	4.98 to 5.20	5	YES	130	122 to 138	1	—	5.1B	4.94 to 5.20	20	—	5.1B	4.94 to 5.20	20	YES
	5.6B	5.49 to 5.73	5	YES	150	140 to 160	1	—	5.6B	5.45 to 5.73	20	—	5.6B	5.45 to 5.73	20	YES
	6.2B	6.06 to 6.33	5	YES	—	—	—	—	6.2B	5.96 to 6.27	20	—	6.2B	5.96 to 6.27	20	YES
	6.8B	6.65 to 6.93	5	YES	—	—	—	—	6.8B	6.49 to 6.83	20	—	6.8B	6.49 to 6.83	20	YES
	7.5B	7.28 to 7.60	5	YES	—	—	—	—	7.5B	7.07 to 7.45	20	—	7.5B	7.07 to 7.45	20	YES
	8.2B	8.02 to 8.36	5	YES	—	—	—	—	8.2B	7.78 to 8.19	20	—	8.2B	7.78 to 8.19	20	YES
	9.1B	8.85 to 9.23	5	YES	—	—	—	—	9.1B	8.57 to 9.01	20	—	9.1B	8.57 to 9.01	20	YES
	10B	9.77 to 10.21	5	YES	—	—	—	—	10B	9.41 to 9.90	20	—	10B	9.41 to 9.90	20	YES
	11B	10.76 to 11.22	5	YES	—	—	—	—	11B	10.50 to 11.05	10	—	11B	10.50 to 11.05	10	YES
	12B	11.74 to 12.24	5	YES	—	—	—	—	12B	11.44 to 12.03	10	—	12B	11.44 to 12.03	10	YES
	13B	12.91 to 13.49	5	YES	—	—	—	—	13B	12.55 to 13.21	10	—	13B	12.55 to 13.21	10	YES
	15B	14.34 to 14.98	5	YES	—	—	—	—	15B	13.89 to 14.62	10	—	15B	13.89 to 14.62	10	YES
	16B	15.85 to 16.51	5	YES	—	—	—	—	16B	15.25 to 16.04	10	—	16B	15.25 to 16.04	10	YES
	18B	17.56 to 18.35	5	YES	—	—	—	—	18B	16.82 to 17.70	10	—	18B	16.82 to 17.70	10	YES
	20B	19.52 to 20.39	5	YES	—	—	—	—	20B	18.63 to 19.59	10	—	20B	18.63 to 19.59	10	YES
	22B	21.54 to 22.47	5	YES	—	—	—	—	22B	20.64 to 21.71	5	—	22B	20.64 to 21.71	5	YES
	24B	23.72 to 24.78	5	YES	—	—	—	—	24B	22.61 to 23.77	5	—	24B	22.61 to 23.77	5	YES
27B	26.19 to 27.53	5	YES	—	—	—	—	27B	24.97 to 26.26	5	—	27B	24.97 to 26.26	5	YES	
30B	29.19 to 30.69	5	YES	—	—	—	—	30B	27.70 to 29.13	5	—	30B	27.70 to 29.13	5	YES	
33B	32.15 to 33.79	5	YES	—	—	—	—	33B	30.32 to 31.88	5	—	—	—	—	—	
36B	35.07 to 36.87	5	YES	—	—	—	—	36B	32.79 to 34.49	5	—	—	—	—	—	
39B	38.02 to 39.98	2	YES	—	—	—	—	39B	35.36 to 37.19	5	—	—	—	—	—	
43	40.00 to 45.00	2	YES	—	—	—	—	—	—	—	—	—	—	—	—	
47	44.00 to 49.00	2	YES	—	—	—	—	—	—	—	—	—	—	—	—	

齐纳二极管

齐纳二极管
例: Y D Z V F H T R 1 3
型号 产品性能代码 包装代码 齐纳电压

齐纳二极管2

Package	Surface Mount type																
																	
Equivalent Circuit Diagram																	
Series Name	TDZV series				YDZV series				BZX84BxxLY series				BZX84CxxLY series				
Automotive Grade Code	—				FH				FH				FH				
Power (mW)	500				500				250				250				
Taping Code	TR				TR				T116				T116				
Electrical Characteristics (T _a =25° C)	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	
Voltage	—	—	—	—	—	—	—	—	—	—	—	—	2V4	2.20 to 2.60	5	YES	
	—	—	—	—	—	—	—	—	—	—	—	—	2V7	2.50 to 2.90	5	YES	
	—	—	—	—	—	—	—	—	—	—	—	—	3V0	2.80 to 3.20	5	YES	
	—	—	—	—	—	—	—	—	—	—	—	—	3V3	3.10 to 3.50	5	YES	
	—	—	—	—	—	—	—	—	—	—	—	—	3V6	3.40 to 3.80	5	YES	
	—	—	—	—	—	—	—	—	—	—	—	—	3V9	3.70 to 4.10	5	YES	
	—	—	—	—	—	—	—	—	—	—	—	—	4V3	4.00 to 4.60	5	YES	
	—	—	—	—	—	—	—	—	—	—	—	—	4V7	4.40 to 5.00	5	YES	
	5.1	4.60 to 5.60	10	—	—	—	—	—	5V1	5.00 to 5.20	5	YES	5V1	4.80 to 5.40	5	YES	
	5.6	5.10 to 6.10	10	—	—	—	—	—	5V6	5.49 to 5.71	5	YES	5V6	5.20 to 6.00	5	YES	
	6.2	5.60 to 6.80	10	—	—	—	—	—	6V2	6.08 to 6.32	5	YES	6V2	5.80 to 6.60	5	YES	
	6.8	6.20 to 7.40	10	—	—	—	—	—	6V8	6.66 to 6.94	5	YES	6V8	6.40 to 7.20	5	YES	
	7.5	6.80 to 8.30	10	—	—	—	—	—	7V5	7.35 to 7.65	5	YES	7V5	7.00 to 7.90	5	YES	
	8.2	7.40 to 9.00	10	—	—	—	—	—	8V2	8.04 to 8.36	5	YES	8V2	7.70 to 8.70	5	YES	
	9.1	8.20 to 10.00	10	—	—	—	—	—	9V1	8.92 to 9.28	5	YES	9V1	8.50 to 9.60	5	YES	
	10	9.00 to 11.00	10	—	—	—	—	—	10V	9.80 to 10.20	5	YES	10V	9.40 to 10.60	5	YES	
	11	9.90 to 12.10	10	—	—	—	—	—	11V	10.80 to 11.20	5	YES	11V	10.40 to 11.60	5	YES	
	12	10.80 to 13.20	10	—	—	—	—	—	12V	11.80 to 12.20	5	YES	12V	11.40 to 12.70	5	YES	
	13	11.70 to 14.30	10	—	13	11.70 to 14.30	10	YES	13V	12.70 to 13.30	5	YES	13V	12.40 to 14.10	5	YES	
	15	13.50 to 16.50	10	—	15	13.50 to 16.50	10	YES	15V	14.70 to 15.30	5	YES	15V	13.80 to 15.60	5	YES	
	16	14.40 to 17.60	10	—	16	14.40 to 17.60	10	YES	16V	15.70 to 16.30	5	YES	16V	15.30 to 17.10	5	YES	
	18	16.20 to 19.80	10	—	18	16.20 to 19.80	10	YES	18V	17.60 to 18.40	5	YES	18V	16.80 to 19.10	5	YES	
	20	18.00 to 22.00	10	—	20	18.00 to 22.00	10	YES	20V	19.60 to 20.40	5	YES	20V	18.80 to 21.20	5	YES	
	22	19.80 to 24.20	10	—	22	19.80 to 24.20	10	YES	22V	21.60 to 22.40	5	YES	22V	20.80 to 23.30	5	YES	
	24	21.60 to 26.40	10	—	24	21.60 to 26.40	10	YES	24V	23.50 to 24.50	5	YES	24V	22.80 to 25.60	5	YES	
	27	24.30 to 29.70	10	—	27	24.30 to 29.70	10	YES	27V	26.50 to 27.50	2	YES	27V	25.10 to 28.90	2	YES	
	30	27.00 to 33.00	10	—	—	—	—	—	30V	29.40 to 30.60	2	YES	30V	28.00 to 32.00	2	YES	
	—	—	—	—	—	—	—	—	33V	32.30 to 33.70	2	YES	33V	31.00 to 35.00	2	YES	
	—	—	—	—	—	—	—	—	36V	35.30 to 36.70	2	YES	36V	34.00 to 38.00	2	YES	
Package	Surface Mount type																
																	
Equivalent Circuit Diagram																	
Series Name	KDZV series				KDZLV series				PDZV series				PTZ series*				
Automotive Grade Code	TF				TF				TF				TF				
Power (mW)	1,000				1,000				1,000				1,000				
Taping Code	TR				TR				TR				TE25				
Electrical Characteristics (T _a =25° C)	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	V _Z (V)		I _Z (mA)	Automotive Grade AEC-Q101	
Voltage	2.0B	2.00 to 2.24	40	YES	51	48 to 54	2	YES	2.0B	2.00 to 2.24	40	YES	2.0B	2.00 to 2.24	40	YES	
	2.2B	2.20 to 2.45	40	YES	56	53 to 60	2	YES	2.2B	2.20 to 2.45	40	YES	2.2B	2.20 to 2.45	40	YES	
	2.4B	2.40 to 2.70	40	YES	62	58 to 66	2	YES	2.4B	2.40 to 2.70	40	YES	2.4B	2.40 to 2.70	40	YES	
	2.7B	2.70 to 3.10	40	YES	68	64 to 72	2	YES	2.7B	2.70 to 3.10	40	YES	2.7B	2.70 to 3.10	40	YES	
	3.0B	3.00 to 3.40	40	YES	75	70 to 79	2	YES	3.0B	3.00 to 3.40	40	YES	3.0B	3.00 to 3.40	40	YES	
	3.3B	3.30 to 3.70	40	YES	82	77 to 87	2	YES	3.3B	3.30 to 3.70	40	YES	3.3B	3.30 to 3.70	40	YES	
	3.6B	3.60 to 4.00	40	YES	91	85 to 96	2	YES	3.6B	3.60 to 4.00	40	YES	3.6B	3.60 to 4.00	40	YES	
	3.9B	3.90 to 4.40	40	YES	100	94 to 106	2	YES	3.9B	3.90 to 4.40	40	YES	3.9B	3.90 to 4.40	40	YES	
	4.3B	4.30 to 4.80	40	YES	110	104 to 116	2	YES	4.3B	4.30 to 4.80	40	YES	4.3B	4.30 to 4.80	40	YES	
	4.7B	4.70 to 5.20	40	YES	120	114 to 126	2	YES	4.7B	4.70 to 5.20	40	YES	4.7B	4.70 to 5.20	40	YES	
	5.1B	5.10 to 5.70	40	YES	130	122 to 138	2	YES	5.1B	5.10 to 5.70	40	YES	5.1B	5.10 to 5.70	40	YES	
	5.6B	5.60 to 6.30	40	YES	150	140 to 160	2	YES	5.6B	5.60 to 6.30	40	YES	5.6B	5.60 to 6.30	40	YES	
	6.2B	6.20 to 7.00	40	YES	—	—	—	—	6.2B	6.20 to 7.00	40	YES	6.2B	6.20 to 7.00	40	YES	
	6.8B	6.80 to 7.70	40	YES	—	—	—	—	6.8B	6.80 to 7.70	40	YES	6.8B	6.80 to 7.70	40	YES	
	7.5B	7.50 to 8.40	40	YES	—	—	—	—	7.5B	7.50 to 8.40	40	YES	7.5B	7.50 to 8.40	40	YES	
	8.2B	8.20 to 9.30	40	YES	—	—	—	—	8.2B	8.20 to 9.30	40	YES	8.2B	8.20 to 9.30	40	YES	
	9.1B	9.10 to 10.20	40	YES	—	—	—	—	9.1B	9.10 to 10.20	40	YES	9.1B	9.10 to 10.20	40	YES	
	10B	10.00 to 11.20	40	YES	—	—	—	—	10B	10.00 to 11.20	40	YES	10B	10.00 to 11.20	40	YES	
	11B	11.00 to 12.30	20	YES	—	—	—	—	11B	11.00 to 12.30	20	YES	11B	11.00 to 12.30	20	YES	
	12B	12.00 to 13.50	20	YES	—	—	—	—	12B	12.00 to 13.50	20	YES	12B	12.00 to 13.50	20	YES	
	13B	13.30 to 15.00	20	YES	—	—	—	—	13B	13.30 to 15.00	20	YES	13B	13.30 to 15.00	20	YES	
	15B	14.70 to 16.50	20	YES	—	—	—	—	15B	14.70 to 16.50	20	YES	15B	14.70 to 16.50	20	YES	
	16B	16.20 to 18.30	20	YES	—	—	—	—	16B	16.20 to 18.30	20	YES	16B	16.20 to 18.30	20	YES	
	18B	18.00 to 20.30	20	YES	—	—	—	—	18B	18.00 to 20.30	20	YES	18B	18.00 to 20.30	20	YES	
	20B	20.00 to 22.40	20	YES	—	—	—	—	20B	20.00 to 22.40	20	YES	20B	20.00 to 22.40	20	YES	
	22B	22.00 to 24.50	10	YES	—	—	—	—	22B	22.00 to 24.50	10	YES	22B	22.00 to 24.50	10	YES	
	24B	24.00 to 27.60	10	YES	—	—	—	—	24B	24.00 to 27.60	10	YES	24B	24.00 to 27.60	10	YES	
	27B	27.00 to 30.80	10	YES	—	—	—	—	27B	27.00 to 30.80	10	YES	27B	27.00 to 30.80	10	YES	
	30B	30.00 to 34.00	10	YES	—	—	—	—	30B	30.00 to 34.00	10	YES	30B	30.00 to 34.00	10	YES	
	33B	33.00 to 37.00	10	YES	—	—	—	—	33B	33.00 to 37.00	10	YES	33B	33.00 to 37.00	10	YES	
	36B	36.00 to 40.00	10	YES	—	—	—	—	36B	36.00 to 40.00	10	YES	36B	36.00 to 40.00	10	YES	
	39A	37.00 to 44.00	10	YES	—	—	—	—	—	—	—	—	—	—	—	—	—
	43A	40.00 to 46.00	10	YES	—	—	—	—	—	—	—	—	—	—	—	—	—
	47A	44.00 to 50.00	2	YES	—	—	—	—	—	—	—	—	—	—	—	—	—

*仅限车载级
注1: 表中是量产中的细分区。
注2: 封装采用JEDEC表示。() 内表示ROHM封装, < > 内表示GENERAL编号。

齐纳二极管

ESD保护用齐纳二极管

例: **UMZ6.8NFM FH T106**
 型号 产品性能代码 包装代码

齐纳二极管(2~4个电路复合品)

Product No.				Absolute Maximum Ratings (T _a =25°C)	Electrical Characteristics (T _a =25°C)		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	P _D (mW)	V _Z (V)	I _Z (mA)			
	General	Automotive							
UMZ6.8NFM	*	FH	T106	200	6.65 to 6.93	5	 SOT-323 (UMD3)		YES
UMZ12NFM		FH	T106	200	11.74 to 12.24	5			YES
UMZ16NFM		FH	T106	200	12.91 to 13.49	5			YES
UMZ18NFM		FH	T106	200	15.85 to 16.51	5			YES
UMZ27NFM		FH	T106	200	23.72 to 24.78	5			YES
UMZ30NFM		FH	T106	200	26.19 to 27.53	5			YES
UMZ36NFM		FH	T106	200	32.15 to 33.79	5			YES

* 一般产品的性能代码为空白。
 注：封装采用JEDEC表示。()内表示ROHM封装。

低容量齐纳二极管

Product No.				Absolute Maximum Ratings (T _a =25°C)	Electrical Characteristics (T _a =25°C)					Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	P _D (mW)	V _Z (V)	I _Z (mA)	Ct (pF) Typ	f (MHz)	V _n (V)			
	General	Automotive										
CDZCV5.1B	*	—	T2R	100	4.98 to 5.20	5	5.5	1	0			—
CDZCV6.8B		—	T2R	100	6.65 to 6.93	5	3	1	0			—
EDZCV6.8B		—	T2R	150	6.65 to 6.93	5	3	1	0			—
RSAC6.8CM		—	T2R	100	6.70 to 7.33	5	0.3	1	0			—
RSAC16CM		—	T2R	100	16.49 to 17.51	5	0.3	1	0			—
UMZC6.8NFM		FH	T106	200	6.47 to 7.14	5	3	1	0			YES
UMZU6.2NFM		FH	T106	200	5.90 to 6.50	5	8	1	0			YES

* 一般产品的性能代码为空白。
 注：封装采用JEDEC表示。()内表示ROHM封装。

超低容量双向齐纳二极管

Product No.				Absolute Maximum Ratings (T _a =25° C)	Electrical Characteristics (T _a =25° C)					Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	P _D (mW)	V _Z (V)	I _Z (mA)	C _t (pF) Typ	f (MHz)	V _R (V)			
	General	Automotive										
RSBC6.8CM	★	—	T2N	100	6.62 to 7.24	5	1	1	0	SOD-923 (VMN2M)		—

* 一般产品的性能代码为空白。
 注：封装采用JEDEC表示。()内表示ROHM封装。

TVS

●TVS一览表

V _{RWM} (V)	Surface Mount type															
	0603 size		1006 size		2924 size		2513 size		3516 size		4725 size					
																
	DSN0603-2 (SMD0603B)		DSN1006-2 (SMD1006)		SOT-23 (SSD3)		(PMDE)		(PMDU) (SOD-123FL)		(PMDTM) (SOD-128)		TO-252 (DPAK)		(TO-263S) (D2PAK)	
3.0				MMBZ5V6ALY MMBZ6V2ALY	6 7											
4.5				MMBZ6V8ALY	8											
5.0						VS5V0UA1VWM	22	SMF5V0	31	VS5V0UA1LAM	54					
6.0				MMBZ9V1ALY	9			SMF6V0	32	VS6V0UA1LAM	55					
6.3			VS6V3UC1QS	5												
6.5				MMBZ10VALY	10			SMF6V5	33							
7.0	VS7V0UD1HS	1						SMF7V0	34	VS7V0UA1LAM	56					
7.5								SMF7V5	35							
8.0								SMF8V0	36	VS8V0UA1LAM	57					
8.5				MMBZ12VALY	11											
9.0	VS9V0UD1HS	2						SMF9V0	37	VS9V0UA1LAM	58					
10.0								SMF10V	38	VS10VUA1LAM	59					
11.0								SMF11V	39	VS11VUA1LAM	60					
12.0	VS12V0UD1HS	3		MMBZ15VALY	12			SMF12V	40	VS12VUA1LAM	61					
13.0				MMBZ16VALY	13	VS13VUA1VWM	23	SMF13V	41	VS13VUA1LAM	62					
14.0								SMF14V	42	VS14VUA1LAM	63					
14.5				MMBZ18VALY	14											
15.0	VS15V0UD1HS	4						SMF15V	43	VS15VUA1LAM	64					
16.0						VS16VUA1VWM	24	SMF16V	44	VS16VUA1LAM	65					
17.0				MMBZ20VALY	15	VS17VUA1VWM	25	SMF17V	45	VS17VUA1LAM	66					
18.0						VS18VUA1VWM	26	SMF18V	46	VS18VUA1LAM	67					
20.0				MMBZ24VALY	16	VS20VUA1VWM	27	SMF20V	47	VS20VUA1LAM	68					
22.0				MMBZ27VALY MMBZ27VCLY	17 21			SMF22V	48	VS22VUA1LAM	69	RSDT27BM	74	RSDT27NS	76	
24.0				MMBZ30VALY	18	VS24VUA1VWM	28	SMF24V	49	VS24VUA1LAM	70	RSDT30BM	75	RSDT30NS	77	
26.0				MMBZ33VALY	19	VS26VUA1VWM	29	SMF26V	50	VS26VUA1LAM	71					
28.0				MMBZ36VALY	20			SMF28V	51	VS28VUA1LAM	72					
30.0								SMF30V	52	VS30VUA1LAM	73					
33.0						VS33VUA1VWM	30	SMF33V	53							

注：封装采用JEDEC表示。()内表示ROHM封装。

●双向TVS一览表

V _{RWM} (V)	Surface Mount type											
	0402 size		0603 size			1006 size		2012 size		2924 size		
												
	DSN0402-2 (SMD0402)		DSN0603-2 (SMD0603)		DSN0603-2 (SMD0603B)		DSN1006-2 (SMD1006)		(SMD2012)		SOT-23 (SSD3)	
3.3	RAS MID™ ☆VS3V3BA1FS	78	RAS MID™ VS3V3BA1ES	84	RAS MID™ VS3V3BC1HS	83						
	RAS MID™ ☆VS3V3BB1FS	79	RAS MID™ VS3V3BB1ES	85	RAS MID™ VS3V3BL1HS	96						
	RAS MID™ ☆VS3V3BT1FS	80			RAS MID™ VS3V3BN1HS	97						
4.5						RAS MID™ VS4V5BU1QS	90					
4.8								RAS MID™ VS4V8BU1AR	91			
5.0	RAS MID™ ☆VS5V0BA1FS	81	RAS MID™ VS5V0BA1ES	86	RAS MID™ VS5V0BL1HS	98	RAS MID™ VS5V0BL1QS	100				
	RAS MID™ ☆VS5V0BB1FS	82	RAS MID™ VS5V0BB1ES	87	RAS MID™ VS5V0BN1HS	99						
			RAS MID™ VS5V0BC1ES	88								
12.0					RAS MID™ VS12VBA1HS	89					ESD16VHY	92
16.0											ESD18VHY	93
24.0											ESD27VHY RES D1CANY	94 95

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注：封装采用JEDEC表示。()内表示ROHM封装。

☆：开发中

TVS

TVS
例: **V S 5 V 0 U A 1 V W M T F T R**
型号 产品性能代码 包装代码

TVS													
Quick Reference No.	Product No.				V _{RWM} (V)	Absolute Maximum Ratings (T _a =25°C)	Electrical Characteristics (T _a =25°C)			Peak Pulse Power (W) (tp=10×1,000μs)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code		P _D (mW)	V _Z (V) or V _{BR} (V)	I _Z (mA)					
		General	Automotive										
1	VS7V0UD1HS	*	—	T15R	7.0	100	7.20 to 9.00	1	126 (8/20μs)	DSN0603-2 (SMD0603B)		—	
2	VS9V0UD1HS		—	T15R	9.0	100	9.60 to 11.80	1	128 (8/20μs)			—	
3	VS12V0UD1HS		—	T15R	12.0	100	12.20 to 13.80	1	129 (8/20μs)			—	
4	VS15V0UD1HS		—	T15R	15.0	100	15.30 to 16.90	1	135 (8/20μs)			—	
5	VS6V3UC1QS		—	T18R	6.3	200	6.70 to 7.70	1	660 (8/20μs)	DSN1006-2 (SMD1006)		—	
6	MMBZ5V6ALY		FH	T116	3.0	225	5.32 to 5.88	20	24	SOT-23 (SSD3)		YES	
7	MMBZ6V2ALY		FH	T116	3.0	225	5.89 to 6.51	1	24			YES	
8	MMBZ6V8ALY		FH	T116	4.5	225	6.46 to 7.14	1	24			YES	
9	MMBZ9V1ALY		FH	T116	6.0	225	8.65 to 9.56	1	24			YES	
10	MMBZ10VALY		FH	T116	6.5	225	9.50 to 10.50	1	24			YES	
11	MMBZ12VALY		FH	T116	8.5	225	11.40 to 12.60	1	40			YES	
12	MMBZ15VALY		FH	T116	12.0	225	14.25 to 15.75	1	40			YES	
13	MMBZ16VALY		FH	T116	13.0	225	15.20 to 16.80	1	40			YES	
14	MMBZ18VALY		FH	T116	14.5	225	17.10 to 18.90	1	40			YES	
15	MMBZ20VALY		FH	T116	17.0	225	19.00 to 21.00	1	40			YES	
16	MMBZ24VALY		FH	T116	20.0	225	22.80 to 25.20	1	40			YES	
17	MMBZ27VALY		FH	T116	22.0	225	25.65 to 28.35	1	40			YES	
18	MMBZ30VALY		FH	T116	24.0	225	28.50 to 31.50	1	40			YES	
19	MMBZ33VALY		FH	T116	26.0	225	31.35 to 34.65	1	40			YES	
20	MMBZ36VALY		FH	T116	28.0	225	34.20 to 37.80	1	40			YES	
21	MMBZ27VCLY	FH	T116	22.0	225	25.65 to 28.35	1	40			YES		
22	VS5V0UA1VWM	*	TF	TR	5	1,000	6.40 to 7.20	40	200	(PMDE)		YES	
23	VS13VUA1VWM		TF	TR	13.0	1,000	14.7 to 16.5	20	200			YES	
24	VS16VUA1VWM		TF	TR	16.0	1,000	18.0 to 20.3	20	200			YES	
25	VS17VUA1VWM		TF	TR	17.0	1,000	18.8 to 21.2	20	200			YES	
26	VS18VUA1VWM		TF	TR	18.0	1,000	20.0 to 22.4	20	200			YES	
27	VS20VUA1VWM		TF	TR	20.0	1,000	22.0 to 24.5	10	200			YES	
28	VS24VUA1VWM		TF	TR	24.0	1,000	27.0 to 30.8	10	200			YES	
29	VS26VUA1VWM		TF	TR	26.0	1,000	30.0 to 34.0	10	200			YES	
30	VS33VUA1VWM		TF	TR	33.0	1,000	36.0 to 40.0	10	200			YES	
31	SMF5V0		TF	TR	5.0	1,000	6.40 or more	40	200			(PMDU) (SOD-123FL)	YES
32	SMF6V0		TF	TR	6.0	1,000	6.67 or more	40	200				YES
33	SMF6V5		TF	TR	6.5	1,000	7.22 or more	40	200				YES
34	SMF7V0		TF	TR	7.0	1,000	7.78 or more	40	200	YES			
35	SMF7V5		TF	TR	7.5	1,000	8.33 or more	40	200	YES			
36	SMF8V0		TF	TR	8.0	1,000	8.89 or more	40	200	YES			
37	SMF9V0		TF	TR	9.0	1,000	10.0 or more	40	200	YES			
38	SMF10V		TF	TR	10.0	1,000	11.1 or more	20	200	YES			
39	SMF11V		TF	TR	11.0	1,000	12.2 or more	20	200	YES			
40	SMF12V		TF	TR	12.0	1,000	13.3 or more	20	200	YES			
41	SMF13V		TF	TR	13.0	1,000	14.4 or more	20	200	YES			
42	SMF14V		TF	TR	14.0	1,000	15.6 or more	20	200	YES			
43	SMF15V		TF	TR	15.0	1,000	16.7 or more	20	200	YES			
44	SMF16V		TF	TR	16.0	1,000	17.2 or more	20	200	YES			
45	SMF17V		TF	TR	17.0	1,000	18.9 or more	20	200	YES			
46	SMF18V		TF	TR	18.0	1,000	20.0 or more	20	200	YES			
47	SMF20V		TF	TR	20.0	1,000	22.2 or more	10	200	YES			
48	SMF22V		TF	TR	22.0	1,000	24.4 or more	10	200	YES			
49	SMF24V		TF	TR	24.0	1,000	26.7 or more	10	200	YES			
50	SMF26V		TF	TR	26.0	1,000	28.9 or more	10	200	YES			
51	SMF28V		TF	TR	28.0	1,000	31.1 or more	10	200	YES			
52	SMF30V		TF	TR	30.0	1,000	33.3 or more	10	200	YES			
53	SMF33V		TF	TR	33.0	1,000	36.7 or more	10	200	YES			
54	VS5V0UA1LAM		TF	TR	5.0	—	6.45 to 7.14	10	600	(PMDTM) (SOD-128)		YES	
55	VS6V0UA1LAM		TF	TR	6.0	—	6.67 to 7.37	10	600			YES	
56	VS7V0UA1LAM		TF	TR	7.0	—	7.78 to 8.60	10	600			YES	
57	VS8V0UA1LAM		TF	TR	8.0	—	8.89 to 9.83	1	600			YES	
58	VS9V0UA1LAM		TF	TR	9.0	—	10.0 to 11.1	1	600			YES	
59	VS10VUA1LAM		TF	TR	10.0	—	11.1 to 12.3	1	600			YES	
60	VS11VUA1LAM		TF	TR	11.0	—	12.2 to 13.5	1	600			YES	
61	VS12VUA1LAM		TF	TR	12.0	—	13.3 to 14.7	1	600			YES	
62	VS13VUA1LAM		TF	TR	13.0	—	14.4 to 15.9	1	600			YES	
63	VS14VUA1LAM		TF	TR	14.0	—	15.6 to 17.2	1	600			YES	
64	VS15VUA1LAM		TF	TR	15.0	—	16.7 to 18.5	1	600			YES	
65	VS16VUA1LAM		TF	TR	16.0	—	17.8 to 19.7	1	600			YES	
66	VS17VUA1LAM		TF	TR	17.0	—	18.9 to 20.9	1	600	YES			
67	VS18VUA1LAM		TF	TR	18.0	—	20.0 to 22.1	1	600	YES			
68	VS20VUA1LAM		TF	TR	20.0	—	22.2 to 24.5	1	600	YES			
69	VS22VUA1LAM		TF	TR	22.0	—	24.4 to 26.9	1	600	YES			
70	VS24VUA1LAM	TF	TR	24.0	—	26.7 to 29.5	1	600	YES				
71	VS26VUA1LAM	TF	TR	26.0	—	28.9 to 31.9	1	600	YES				
72	VS28VUA1LAM	TF	TR	28.0	—	31.1 to 34.4	1	600	YES				
73	VS30VUA1LAM	TF	TR	30.0	—	33.3 to 36.8	1	600	YES				
74	RSdT27BM	—	FH	TL	22.0	2,500	24.0 to 30.0	10	2,500	TO-252 (DPAK)		YES	
75	RSdT30BM	—	FH	TL	24.0	2,500	27.0 to 33.0	10	2,500	(TO-263S) (D2PAK)		YES	
76	RSdT27NS	*	FH	TL	22.0	5,000	24.0 to 30.0	10	3,600			YES	
77	RSdT30NS	—	FH	TL	24.0	5,000	27.0 to 33.0	10	3,600			YES	

* 一般产品的性能代码为空白。
注：封装采用JEDEC表示。()内表示ROHM封装，< >内表示GENERAL编号。

TVS

TVS
例:

V	S	3	V	3	B	C	1	H	S	T	1	5	R
型号										包装代码			

双向TVS														
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _a =25° C)	Electrical Characteristics (T _a =25° C)		Peak Pulse Power (W) (tp=8/20μs)	Ct (pF)			Package	Equivalent Circuit Diagram	
	Part No.	Grade Code		Taping Code		P _D (mW)	V _{BR} (V)		I _Z (mA)	f (MHz)	V _R (V)			
		General	Automotive											
78	RASMD™ ☆VS3V3BA1FS	*	—	T27N	100	4.0 or more	1	26.5	6	1	0	DSN0402-2 (SMD0402)		
79	RASMD™ ☆VS3V3BB1FS		—	T27N	100	4.0 or more	1	38	10	1	0			
80	RASMD™ ☆VS3V3BT1FS		—	T27N	100	4.0 or more	1	21	4.7	1	0			
81	RASMD™ ☆VS5V0BA1FS		—	T27N	100	5.3 or more	1	26.5	6	1	0			
82	RASMD™ ☆VS5V0BB1FS		—	T27N	100	5.3 or more	1	45	10	1	0			
83	RASMD™ VS3V3BC1HS		—	T15R	100	4.0 or more	1	70	18	1	0	DSN0603-2 (SMD0603B)		
84	RASMD™ VS3V3BA1ES		—	T15R	100	4.0 or more	1	28	6	1	0	DSN0603-2 (SMD0603)		
85	RASMD™ VS3V3BB1ES		—	T15R	100	4.0 or more	1	45	10	1	0			
86	RASMD™ VS5V0BA1ES		—	T15R	100	6.0 to 8.0	1	10	5	1	0			
87	RASMD™ VS5V0BB1ES		—	T15R	100	6.0 to 9.0	1	25	7	1	0			
88	RASMD™ VS5V0BC1ES		—	T15R	100	6.0 to 9.0	1	60	15	1	0			
89	RASMD™ VS12VBA1HS		—	T15R	100	12.5 to 15.0	1	70	7	1	0	DSN0603-2 (SMD0603B)		
90	RASMD™ VS4V5BU1QS		—	T18R	200	5.3 to 6.5	1	600	100	1	0	DSN01006-2 (SMD1006)		
91	RASMD™ VS4V8BU1AR		—	T7R	—	4.85 to 6.00	1	1,100	480	1	0	(SMD2012)		
92	ESD16VHY		FH	T116	225	15.96 to 17.64	1	100	13 (Typ)	1	0	SOT-23 (SSD3)		
93	ESD18VHY		FH	T116	225	17.86 to 19.74	1	100	12 (Typ)	1	0			
94	ESD27VHY		FH	T116	225	26.41 to 29.19	1	100	8 (Typ)	1	0			
95	RESD1CANY	FH	T116	225	26.20 to 32.00	1	350	30 (Max)	1	0				
低容量双向TVS														
Quick Reference No.	Product No.				Absolute Maximum Ratings (T _a =25° C)	Electrical Characteristics (T _a =25° C)		Remarks	Ct (pF)			Package	Equivalent Circuit Diagram	
	Part No.	Grade Code		Taping Code		P _D (mW)	V _{BR} (V)		I _Z (mA)	f (MHz)	V _R (V)			
		General	Automotive											
96	RASMD™ VS3V3BL1HS	*	—	T15R	100	6.00 to 10.00	1	IEC61000-4-2, 150pF, 330Ω, Contact 11kV, Air 15kV		0.34	1	0	DSN0603-2 (SMD0603B)	
97	RASMD™ VS3V3BN1HS		—	T15R	100	6.00 to 10.00	1			0.5	1	0		
98	RASMD™ VS5V0BL1HS		—	T15R	100	6.00 to 10.00	1			0.25	1	0		
99	RASMD™ VS5V0BN1HS		—	T15R	100	6.00 to 10.00	1			0.5	1	0		
100	RASMD™ VS5V0BL1QS		—	T18R	200	7.00 or more	1			0.8	1	0	DSN01006-2 (SMD1006)	

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 * 一般产品的产品性能代码为空白。
 注：封装采用JEDEC表示。()内表示ROHM封装。

开关二极管

●开关二极管一览表

V _R (V)	Surface Mount type							
	1006 size	1608 size	1212 size	1616 size	2120 size		2512 size	2924 size
								
	SOD-923 (VMN2M)	SOD-523 (EMD2)	SOT-723 (VMD3)	SOT-416FL (EMD3F)	SOT-323FL (UMD3F)	SOT-323 (UMD3)	SOD-323FL (UMD2)	SOT-23 (SSD3)
20			DA221ZM	DA221WM				
80	1SS400CM	1SS400SM	DAN222ZM DAP222ZM	DAN222WM DAP222WM DAN217WM DA228WM	DAN202UM DAP202UM DAN217UM DA204UM DA228UM BAW156UM BAV199UM	DAN202FM DAP202FM BAV99FM BAV199FM	1SS355VM 1SS380VM	BAS16HY BAV70HY BAW56HY BAV99HY BAW156HY BAV199HY BAS116HY BAV170HY
200							BAS21VM	BAS21HY

注：封装采用JEDEC表示。()内表示ROHM封装。

开关二极管



高速型																		
Product No.			Absolute Maximum Ratings (T _a =25°C)*1					Electrical Characteristics (T _a =25°C)*1							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101	
Part No.	Grade Code	Taping Code	V _{RM} (V)	V _R (V)	I _{FM} (mA)	I _O (mA)	I _{surge} (mA)	V _F (V) Max	I _F (mA)	I _R (μA) Max	V _R (V)	t _{rr} (ns) Max	V _R (V)	I _F (mA)				
1SS400CM	*	—	T2R	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-923 (VMN2M)		—
1SS355VM		FH	TE-17	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-323FL (UMD2)		YES
1SS400SM		FH	T2R	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-523 (EMD2)		YES
BAS16HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)		YES
DAN222ZM		—	T2L	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-723 (VMD3)		—
DAN222WM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F)		—
DAN202UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323FL (UMD3F)		—
DAN202FM		FH	T106	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323 (UMD3)		YES
BAV70HY		FH	T116	90	80	450	215*3	4,000 (1μs)	1.25	150	0.5	80	4	10*2	10	SOT-23 (SSD3)	YES	
DAP222ZM		—	T2L	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-723 (VMD3)		—
DAP222WM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F)		—
DAP202UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323FL (UMD3F)		—
DAP202FM		FH	T106	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323 (UMD3)	YES	
BAW56HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)	YES	
DAN217WM		FH	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F)		YES
DAN217UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.2	70	4	6	5	SOT-323FL (UMD3F)		—
BAV99HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)		YES
BAV99FM		FH	T106	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-323 (UMD3)	YES	
BAS21HY		FH	T116	250	200	—	200*3	10,000 (1μs)	1	100	0.1	200	50	30*2	30	SOT-23 (SSD3)		YES
BAS21VM		FH	TE-17	250	200	—	200*3	10,000 (1μs)	1	100	0.1	200	50	30*2	30	SOD-323FL (UMD2)		YES
低漏失型																		
1SS380VM	*	FH	TE-17	80	80	225	100	400 (1s)	1.2	100	0.01	80	—	—	—	SOD-323FL (UMD2)		YES
BAW156HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
BAW156UM		FH	TL	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-323FL (UMD3F)		YES
BAV199HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
BAV199FM		FH	T106	100	80	500	215*3	4,000 (1μs)	1.25	150	0.01	75	3,000	10*2	10	SOT-323 (UMD3)		YES
BAV199UM		FH	TL	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-323FL (UMD3F)		YES
DA204UM		—	TL	20	20	200	100	300 (1μs)	1.0	10	0.1	15	—	—	—	SOT-323FL (UMD3F)		—
DA228UM		—	TL	80	80	200	100	300 (1μs)	1.2	100	0.01	80	—	—	—	SOT-323FL (UMD3F)	—	
DA221ZM		—	T2L	20	20	200	100	300 (1μs)	1	10	0.1	15	—	—	—	SOT-723 (VMD3)	—	
DA221WM		—	TL	20	20	200	100	300 (1μs)	1	10	0.1	15	—	—	—	SOT-416FL (EMD3F)	—	
DA228WM		—	TL	80	80	200	100	4,000 (1μs)	1.2	100	0.1	80	—	—	—	SOT-416FL (EMD3F)	—	
BAV170HY		FH	T116	90	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
BAS116HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10			YES

* 一般产品的产品性能代码为空白。
*1 每个元件的规格。 *2 I₀(mA)值, 非V_R(V) *3 I_F值
注：封装采用JEDEC表示。()内表示ROHM封装。

●高频二极管一览表

注：封装采用JEDEC表示。()内表示BOHM封装。

高频二极管

例：

1	S	S	3	9	0	S	M
---	---	---	---	---	---	---	---

F	H
---	---

T	2	R
---	---	---

型号 产品性能代码 包装代码

PIN二极管

检波肖特基势垒二极管

* 一般产品的产品性能代码为空白。

注：封装采用JEDEC表示。（ ）内表示ROHM封装。

封装

■尺寸 (单位: mm)

表面贴装型

DSN0402-2 (SMD402) 	DSN0603-2 (SMD0603) (SMD0603B) 	DSN1006-2 (SMD1006) 	DSN2012-2 (SMD2012)
SOD-923 (VMN2M) 	VMD3 (SOT-723) 	SOD-523 (EMD2) [SC-79] 	SOT-416FL (EMD3F) [SC-89]
SOD-323FL (UMD2) [SC-90A] 	SOT-323FL (UMD3F) [SC-85] 	SOT-323 (UMD3) [SC-70] 	SOT-23 (SSD3)
SOD-323HE (TUMD2M) [SC-108B] 	SOD-323HE (TUMD2SM) 		

注: 封装采用JEDEC表示。()内表示ROHM封装, []内表示JEITA编号。

封装

■尺寸 (单位: mm)

表面贴装型

(PMDE) Each lead has same dimensions	(PMDU) (SOD-123FL) [SC-109B] Each lead has same dimensions	(PMDTM) (SOD-128) Each lead has same dimensions	DO-214AC (PMDS) (SMA) Each lead has same dimensions
(TO-252GE) (DPAK) Each lead has same dimensions	TO-252 (DPAK) Each lead has same dimensions	TO-263L (LPDL) (D2PAK) Each lead has same dimensions	(TO-263S) (LPDS) (D2PAK) [SC-83] Each lead has same dimensions

注: 封装采用JEDEC表示。()内表示ROHM封装。[]内表示JEITA编号, < >内表示GENERAL编号。

Through Hole type

(TO-220FN) <2pin> Each lead has same dimensions	(TO-220FN) <3pin> Each lead has same dimensions	(TO-220NFM) <2pin> Each lead has same dimensions
(TO-220AC) Each lead has same dimensions	(TO-220ACFP) Each lead has same dimensions	
TO-247GE-2L Each lead has same dimensions	TO-247GE-3L Each lead has same dimensions	

注: 封装采用JEDEC表示。()内表示ROHM封装。

品名构成说明

- 订货时，请指明品名代码
- 请参照下表核对每一个代码
- 请由左至右填写品名代码

• 肖特基势垒二极管

例:

R	B	7	5	1	S	M	-	4	0	F	H	T	2	R
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

型号
产品性能代码
包装代码

• 快速恢复二极管

例:

R	F	0	1	V	M	2	S	F	H	T	E	-	1	7
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

型号
产品性能代码
包装代码

• 整流二极管

例:

R	R	1	V	W	M	4	S	T	F	T	R
---	---	---	---	---	---	---	---	---	---	---	---

型号
产品性能代码
包装代码

• 齐纳二极管

例:

E	D	Z	V	F	H	T	2	R	3	.	6	B
---	---	---	---	---	---	---	---	---	---	---	---	---

型号
产品性能代码
包装代码
齐纳电压
细区分

• 保护元件

例:

U	M	Z	6	.	8	N	F	M	F	H	T	1	0	6
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

型号
产品性能代码
包装代码

• TVS

例:

V	S	5	V	0	U	A	1	V	W	M	T	F	T	R
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

型号
产品性能代码
包装代码

• 开关二极管

例:

1	S	S	3	5	5	V	M	F	H	T	E	-	1	7
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

型号
产品性能代码
包装代码

• 高频二极管

例:

1	S	S	3	9	0	S	M	F	H	T	2	R
---	---	---	---	---	---	---	---	---	---	---	---	---

型号
产品性能代码
包装代码

• 包装代码

Package	Code	ROHM Package	JEITA code	Size	Height	Package Style	Direction	Basic Ordering Unit (pcs)
Surface Mount type	DSN0402-2	T27R	SMD0402	0402	0.18	Embossed tape	Cathode on sprocket hole side	27,000
		T27N				Embossed tape	Non-direction	27,000
	DSN0603-2	T15R	SMD0603	0603	0.28	Embossed tape	Cathode on sprocket hole side	15,000
	DSN1006-2	T18R	SMD1006	1006	0.22	Embossed tape	Cathode on sprocket hole side	18,000
	SOT-723	T2L	VMD3	SC-105AA	1212	Embossed tape	One terminal on sprocket hole side	8,000
	DSN2012-2	T7R	SMD2012	2012	0.3	Embossed tape	Cathode on sprocket hole side	7,000
	SOD-923	T2R	VMN2M	1006	0.37	Embossed tape	Cathode on sprocket hole side	8,000
	SOD-523	T2R	EMD2	1608	0.6	Embossed tape	Cathode on sprocket hole side	8,000
	SOT-416FL	TL	EMD3F	SC-89	1616	Embossed tape	One terminal on sprocket hole side	3,000
	SOD-323FL	TE-17	UMD2	SC-90A	2512S	Embossed tape	Cathode on sprocket hole side	3,000
	SOT-323	T106	UMD3	SC-70	2120	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-323FL	TL	UMD3F	SC-85	2120	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-23	T116	SSD3	—	2429	Embossed tape	One terminal on sprocket hole side	3,000
	SOD-323HE	TR	TUMD2M	SC-108B	2514	Embossed tape	Cathode on sprocket hole side	3,000
	(PMDE)	TR	PMDE	—	2513	Embossed tape	Cathode on sprocket hole side	3,000
	(SOD-123FL)	TR	PMDU	SC-109B	3516	Embossed tape	Cathode on sprocket hole side	3,000
	(SOD-128)	TR	PMDTM	—	4725	Embossed tape	Cathode on sprocket hole side	3,000
Through Hole type	DO-214AC (SMA)	TE25	PMDS	—	5026	Embossed tape	Cathode on sprocket hole side	1,500
	(TO-252GE) (DPAK)	TL	TO-252GE	SC-63	9866	Embossed tape	Fin on sprocket hole side	2,500
	TO-252 (DPAK)	TL	—	SC-63	10066	Embossed tape	Fin on sprocket hole side	2,500
	(TO-263S) (D2PAK)	TL	LPDS	SC-83	131101	Embossed tape	Fin on sprocket hole side	1,000
	TO-263L (D2PAK)	TL	LPDL	SC-83	151101	Embossed tape	Fin on sprocket hole side	1,000
	(TO-220FN)	C9	TO-220FN	—	29×10	Stick	box	1,000
	(TO-220NFM)	C9	TO-220NFM	—	29×10	Stick	box	1,000
	(TO-220AC)	C9	TO-220AC	—	28.56×10.2	Stick	box	1,000
	(TO-220ACFP)	C9	TO-220ACFP	—	28.56×10.2	Stick	box	1,000
	TO-247-2L	C13	TO-247GE-2L	—	41.0×15.9	Stick	box	600
	TO-247-3L	C13	TO-247GE-3L	—	41.0×15.9	Stick	box	600

注：封装采用JEDEC表示。()内表示ROHM封装，〈 〉内表示GENERAL代码。

电阻器

电阻器尺寸一览表(分流电阻器)	P.220	电阻器尺寸一览表(通用品/高可靠性产品)	P.221
小型贴片电阻器(RASPID™系列)	P.222	厚膜贴片电阻器(通用型)	P.223
厚膜贴片电阻器(高可靠型)	P.227	电流检测用 贴片电阻器(厚膜型)	P.231
电流检测用贴片电阻器(金属板型)	P.235	标准公称阻值等	P.239

电阻器尺寸一览表

分流电阻器

厚膜分流电阻器产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification General-purpose Ultra-low resistance High Power	Resistance Range (mΩ)	Rated Power (W)	Printing Page
0603 (0201)	UCR006		✓		100 to 910	0.1	P.233
1005 (0402)	UCR01		✓		68 to 910	0.125	P.233
1608 (0603)	UCR03		✓		20 to 200	0.25	P.233
					220 to 910	0.2	P.233
2012 (0805)	New MCR10L			✓	47 to 910	0.5	P.231
	UCR10		✓		11 to 100	0.33	P.233
	☆MCR18L			✓	47 to 910	0.75	P.231
3216 (1206)	UCR18		✓		11 to 39	1	P.233
					43 to 100	0.5	P.233

☆:开发中

厚膜分流电阻器(长边电极型)产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification General-purpose Ultra-low resistance High Power	Resistance Range (mΩ)	Rated Power (W)	Printing Page
1220 (0508)	LTR10	✓	✓		47 to 9100	0.5	P.234
	☆LTR10L	✓			33 to 910	1	P.234
1632 (0612)	LTR18	✓			10 to 1000	1.0/☆1.5	P.234
	LHR18	✓			33 to 1000	1.5	P.234
2550 (1020)	LTR50	✓			10 to 910	2	P.234
3264 (1225)	New LTR100L	✓			10 to 91	4	P.234
	LTR100	✓			100 to 910	2	P.234

☆:开发中

金属板分流电阻器产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification General-purpose Ultra-low resistance High Power	Resistance Range (mΩ)	Rated Power (W)	Printing Page
1005 (0402)	PMR01			✓	10	0.2	P.235
1608 (0603)	PMR03			✓	10	0.25	P.235
2012 (0805)	New PMR10			✓	2	1	P.235
					3 to 10	0.5	P.235
3216 (1206)	New PMR18			✓	1, 2	1.5	P.235
					3 to 10	1	P.235
3225 (1210)	New PMR25			✓	1	2	P.235
					2 to 5	1	P.235
5025 (2010)	New PMR50			✓	1, 2	2	P.235
					3 to 10	1	P.235
6432 (2512)	New PMR100			✓	1, 2	3	P.235
					3 to 10	2	P.235

☆:开发中

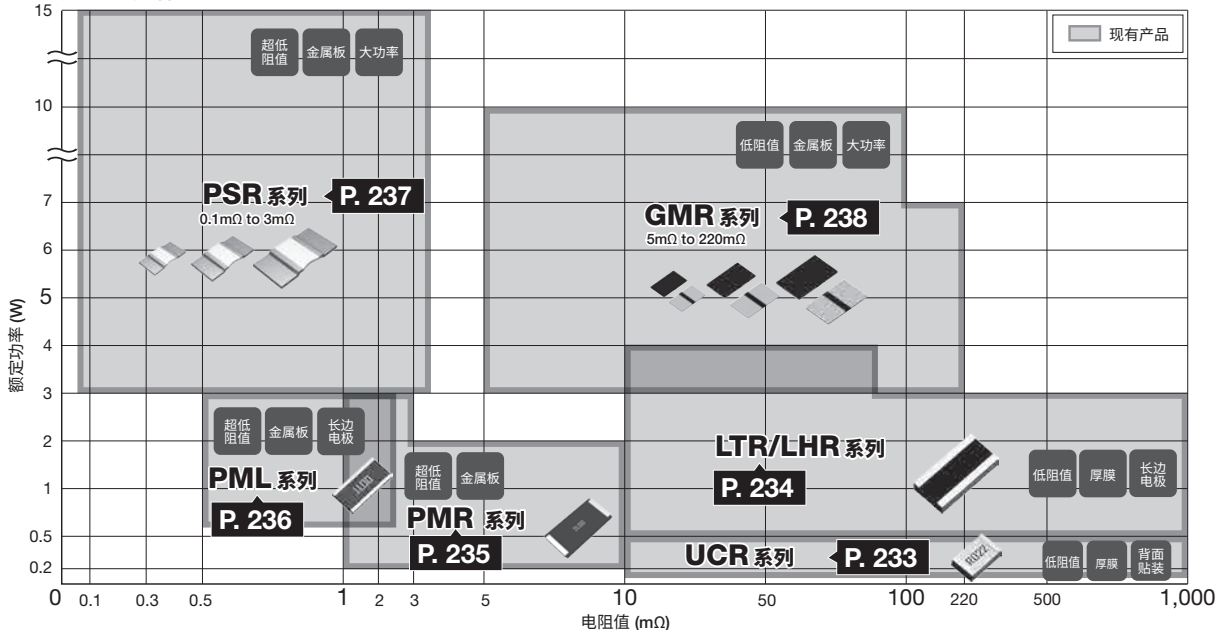
金属板分流电阻器(长边电极型)产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification General-purpose Ultra-low resistance High Power	Resistance Range (mΩ)	Rated Power (W)	Printing Page
1220 (0508)	PML10	✓		✓	1 to 2.5	0.66	P.236
1632 (0612)	PML18	✓		✓	0.5 to 2.5	1	P.236
2550 (1020)	PML50	✓		✓	0.5, 2.2	2	P.236
3264 (1225)	PML100	✓		✓	0.5 to 2.2	2/3 (at25°C)	P.236

大功率金属板分流电阻器产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification General-purpose Ultra-low resistance High Power	Resistance Range (mΩ)	Rated Power (W) (Rated Terminal Temperature)	Printing Page
5025 (2010)	New GMR50			✓	5 to 220	4 (90°C), 3 (110°C)	P.238
6432 (2512)	PSR100			✓	0.3, 0.5, 1.0	8 (75°C), 4 (140°C)	P.237
					2.0	6 (75°C), 4 (140°C)	P.237
	New GMR100			✓	3.0	4 (75°C), 4 (140°C)	P.238
7142 (2817)	New GMR320			✓	5 to 220	7 (70°C), 5 (110°C)	P.238
					5 to 100	10 (70°C), 7 (110°C)	P.238
10×5.2 (3921)	PSR400			✓	0.2	12 (75°C), 5 (130°C)	P.237
					New 0.3, 0.5	10 (75°C), 5 (130°C)	P.237
					1.0	8 (75°C), 5 (130°C)	P.237
					New 2.0	6 (75°C), 4 (115°C)	P.237
					3.0	5 (70°C), 3 (115°C)	P.237
15×7.75 (5931)	PSR500			✓	New 0.1, 0.2	15 (75°C), 10 (120°C)	P.237
					0.3, 0.4, 0.5	10 (75°C), 7 (120°C)	P.237
					1.0	10 (75°C), 6 (120°C)	P.237
					2.0	7 (70°C), 4 (115°C)	P.237

分流电阻器一览表



电阻器尺寸一览表

厚膜贴片电阻器(通用型／高可靠型)

厚膜贴片电阻器(通用型／高可靠型)产品阵容

Size mm (inch)	Part No.	Package RASMID™	Terminal type Wide Terminal	Specification						Resistance Range (Ω)	Rated Power (W)	Printing Page
				General- purpose	Tolerance for Sulfurization	Anti-surge	High Anti-surge	High Power	High Voltage Resistance			
03015 (009005)	SMR003	✓								10 to 1M	0.02	P.222
0402 (1005)	MCR004			✓						1 to 3M	0.031	P.224
0603 (0201)	MCR006			✓						1 to 10M	0.05	P.224, P.232
1005 (0402)	MCR01S							✓		1 to 10M	0.1	P.223
	MCR01			✓						1 to 10M	0.063	P.224, P.232
	ESR01					✓				1 to 10M	0.2	P.227
	SFR01				✓					1 to 10M	0.063	P.230
1608 (0603)	MCR03S							✓		1 to 10M	0.125	P.223
	MCR03			✓						1 to 10M	0.1	P.224, P.232
	SDR03						✓			1 to 10M	0.3	P.227
	ESR03					✓				1 to 10M	0.25	P.227
	KTR03								✓	1 to 10M	0.1	P.229
	SFR03				✓					1 to 10M	0.1	P.230
2012 (0805)	MCR10S							✓		1 to 10M	0.25	P.223
	MCR10			✓						1 to 10M	0.1/0.125/0.25	P.224, P.232
	SDR10						✓			1 to 10M	0.5	P.227
	ESR10					✓				1 to 10M	0.4	P.227
	KTR10								✓	1 to 10M	0.125	P.229
	SFR10				✓					1 to 10M	0.125	P.230
1220 (0508)	LTR10		✓					✓		1 to 1M	0.25	P.228
			✓					✓		*	☆1	P.228
3216 (1206)	MCR18S							✓		1 to 10M	0.4	P.223
	MCR18			✓						1 to 10M	0.125/0.25	P.224, P.232
	ESR18					✓				1 to 10M	0.5	P.227
	KTR18								✓	1 to 10M	0.25	P.229
	SFR18				✓					1 to 10M	0.25	P.230
1632 (0612)	LTR18		✓					✓		1k to 1M	0.75	P.228
			✓							1 to 976	1.5	P.228
3225 (1210)	ESR25					✓				1 to 10M	0.66	P.227
	KTR25								✓	1 to 10M	0.33	P.229
	SFR25				✓					1 to 1M	0.5	P.230
2550 (1020)	LTR50		✓					✓		1 to 1M	1	P.228
			✓					✓		*	☆2	P.228
3264 (1225)	LTR100		✓					✓		1 to 1M	2	P.228
			✓					✓		*	☆3	P.228

◎RASMID™：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。
RASMID™是ROHM Co., Ltd.的商标或注册商标。☆：开发中 *：评估中

小型贴片电阻器(RAS MID™系列) 超小型 方形贴片电阻器：SMR003(009005尺寸)

- 采用自有工艺技术,实现高精度
- 贴片尺寸精度从±20μm提高到±10μm
- 采用金电极,提高润湿性、可靠性

*该产品1个卷轴的基本订货数量为40,000个,并且设有最低订货批次数。详情请垂询本公司。



SMR003 <009005尺寸>								
Part No.	Size Code mm (inch)	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SMR003	03015 (009005)	0.02W	10	J (±5%)	±200	10 to 1MΩ (E24 series)	-55 to +125	—
				F (±1%)		10 to 1MΩ (E24, E96 series)		

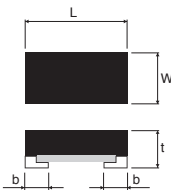
*E24：标准品/E96：订购生产品

跳线类型					
Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
SMR003	03015 (009005)	0.5	50mΩ Max	-55 to +125	—

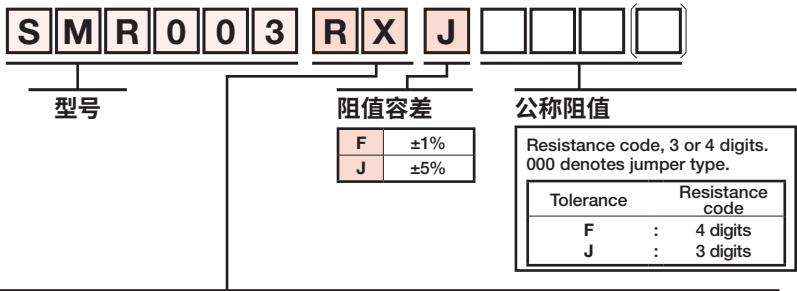
尺寸 (单位: mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
SMR003	03015 (009005)	0.30±0.01	0.15±0.01	0.11±0.01	—	0.07±0.01

●SMR003



品名构成说明



包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
SMR003	RX	○	○	Embossed tape (1mm Pitch)	φ180mm (7inch)	40,000*

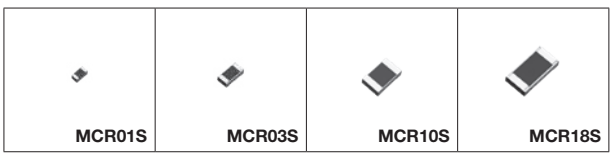
卷轴(φ180mm): 遵循JEITA规格 "EIAJ ET-7200B"
○: 标准产品

RAS MID™是ROHM Co., Ltd.的商标或注册商标。
RAS MID™: 采用ROHM自有的新工艺,实现小型化,具有高精度尺寸的超小型器件系列。
*设有最低订货批次数。详情请垂询本公司。

厚膜贴片电阻器(通用型)

通用贴片电阻器：New MCR系列(0402~1206尺寸)

- 通过电阻元件的重新布线,实现了与大一个尺寸产品同等的额定功率
- 实现了电路的省空间化(0603→0402尺寸的替换减少了约60%的面积)



New MCR系列(0402~1206尺寸)								
Part No.	Size Code mm (inch)	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR01S	1005 (0402)	0.1W	75	J (±5%)	±400	1Ω to 9.1Ω (E24 series)	-55 to +155	YES
				F (±1%)	±200	10Ω to 10MΩ (E24 series)		
MCR03S	1608 (0603)	0.125W	150	J (±5%)	±400	1Ω to 9.1Ω (E24 series)		YES
				F (±1%)	±200	10Ω to 10MΩ (E24 series)		
MCR10S	2012 (0805)	0.25W	200	J (±5%)	±400	1Ω to 9.1Ω (E24 series)		YES
				F (±1%)	±200	10Ω to 10MΩ (E24 series)		
MCR18S	3216 (1206)	0.4W	200	J (±5%)	±400	1Ω to 9.1Ω (E24 series)		YES
				F (±1%)	±200	10Ω to 10MΩ (E24 series)		

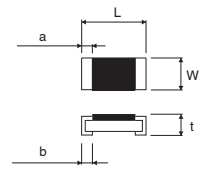
*E24：标准品/E96：订购生产品

跳线类型					
Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR01S	1005 (0402)	1.5	50mΩ Max	-55 to +155	YES
MCR03S	1608 (0603)	2			YES
MCR10S	2012 (0805)	2.5			YES
MCR18S	3216 (1206)	2.5			YES

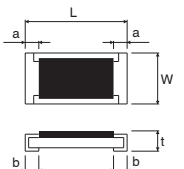
尺寸 (单位: mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR01S	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	0.25 ^{+0.05} _{-0.10}
MCR03S	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
MCR10S	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2
MCR18S	3216 (1206)	3.2 ^{+0.15} _{-0.20}	1.6±0.15	0.55±0.1	0.5±0.25	0.5±0.25

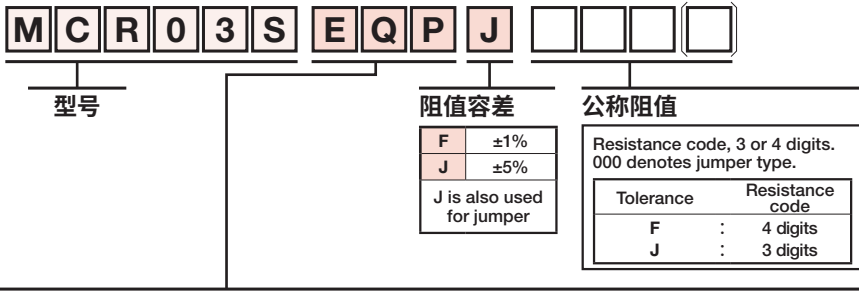
●MCR01S/03S (无标记)



●MCR10S/18S (无标记)



品名构成说明



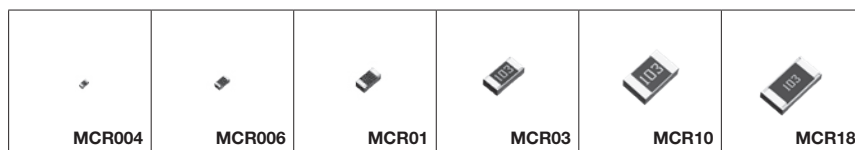
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J(±5%)	F(±1%)			
MCR01S	MQP	○	○	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000
MCR03S	EQP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MCR10S	EQP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MCR18S	EQP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000

卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

厚膜贴片电阻器(通用型) 小型方形贴片电阻器：MCR系列(01005~1206尺寸)

- 将高可靠性贴片电阻器应用于各种电子产品中
- 提供从01005到1206尺寸的6种封装规格
- 可穿戴式、便携式设备到车载、工业等设备均有广泛采用实绩



MCR系列(01005~1206尺寸)									
Part No.	Size Code mm (inch)	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range		Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR004	0402 (01005)	0.031W (1/32W)	15	J (±5%)	+600/-100 ±300 ±250	1Ω to 9.1Ω (E24 series) 10Ω to 91Ω (E24 series) 100Ω to 3MΩ (E24 series)	-55 to +125	—	
				F (±1%)	±300 ±250	10Ω to 97.6Ω (E24, E96 series) 100Ω to 3MΩ (E24, E96 series)			
MCR006	0603 (0201)	0.05W	25	J (±5%)	+600/-200 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)	-55 to +125	YES	
				F (±1%)	±200	10Ω to 10MΩ (E24, E96 series)			
				D (±0.5%)	±200 ±100	10Ω to 976Ω (E24, E96 series) 1kΩ to 1MΩ (E24, E96 series)			
MCR01	1005 (0402)	0.063W (1/16W)	50	J (±5%)	+500/-250 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)	-55 to +155	YES	
				F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)			
				D (±0.5%)	±100 ±50	10Ω to 97.6Ω (E24, E96 series) 100Ω to 1MΩ (E24, E96 series)			
MCR03	1608 (0603)	0.1W	50	J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)	-55 to +155	YES	
				FX (±1%)	±100	10Ω to 10MΩ (E24, E96 series)			
				D (±0.5%)	±100 ±50	10Ω to 97.6Ω (E24, E96 series) 100Ω to 1MΩ (E24, E96 series)			
MCR10	2012 (0805)	0.125W	150	J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)	-55 to +155	YES	
		0.1W		F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)			
				D (±0.5%)	±100 ±50	10Ω to 97.6Ω (E24, E96 series) 100Ω to 1MΩ (E24, E96 series)			
MCR18	3216 (1206)	0.25W	200	J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)	-55 to +155	YES	
		0.125W		F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)			
				D (±0.5%)	±100 ± 50	10Ω to 97.6Ω (E24, E96 series) 100Ω to 1MΩ (E24, E96 series)			

*E24：标准品/E96：订购生产品

跳线类型					
Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR004	0402 (01005)	0.5	50mΩ Max	-55 to +125	—
MCR006	0603 (0201)	0.5			YES
MCR01	1005 (0402)	1		-55 to +155	YES
MCR03	1608 (0603)	1			YES
MCR10	2012 (0805)	2			YES
MCR18	3216 (1206)	2			YES

尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR004	0402 (01005)	0.4±0.02	0.2±0.02	0.13±0.02	0.1±0.03	0.1 ±0.03
MCR006	0603 (0201)	0.6±0.03	0.3±0.03	0.23±0.03	0.1±0.05	0.15±0.05
MCR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	0.25 ^{+0.05} _{-0.10}
MCR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3 ±0.2
MCR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4 ±0.2
MCR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.5±0.25	0.5 ±0.25

品名构成说明



型号

阻值公差

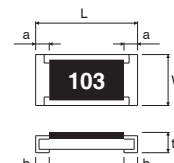
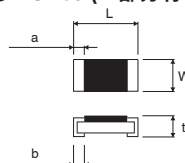
公称阻值

D	±0.5%
F (X)	±1%
J	±5%
J is also used for jumper	

Resistance code, 3 or 4 digits. 000 denotes jumper type.	
Tolerance	Resistance code
D, F (X)	4 digits
J	3 digits

- MCR004/006/01 (无标记)
- MCR03 (一部分有标记)

- MCR10/18



包装规格代码

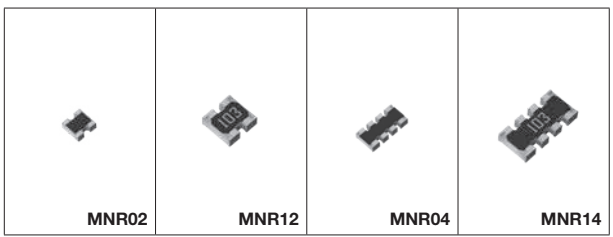
Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
MCR004	QLP	○	○	—	Paper tape (2mm Pitch)	φ180mm (7inch)	20,000
MCR006	YLP	○	○	○	Paper tape (2mm Pitch)	φ180mm (7inch)	15,000
MCR01	MZP	○	○	○	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000
MCR03	EZP	○	○ (FX)	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MCR10	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MCR18	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000

卷轴 (φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
○：标准产品

厚膜贴片电阻器(通用型)

小型贴片排阻：MNR系列(0402尺寸×2~0603尺寸×4)

- 成本降低
采用排阻减少安装次数，并可节省安装空间
- 焊脚检查方便
凸型电极有助于对焊脚进行目测检查
上述检查可以采用自动检测工具

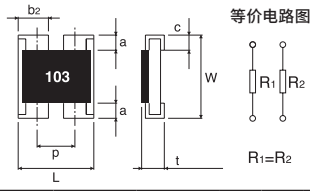


MNR系列(0402尺寸×2~0603尺寸×4)										
Part No.	Size Code mm (inch)	No. of Terminals	No. of Elements	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR02	1005 (0402)×2	4	2	0.063W/Element	25	J (±5%)	±200	10Ω to 1MΩ (E24 series)	-55 to +155	YES
MNR04	1005 (0402)×4	8	4	0.063W/Element	25	J (±5%)	+500/-250 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 1MΩ (E24 series)		YES
MNR12	1608 (0603)×2	4	2	0.063W/Element	50	J (±5%)	±200	10Ω to 1MΩ (E24 series)		YES
MNR14	1608 (0603)×4	8	4	0.063W/Element	50	J (±5%)	±500 ±200	2.2Ω to 6.8Ω (E6 series) 10Ω to 1MΩ (E24 series)		YES

跳线类型					
Part No.	Size Code mm (inch)	Rated Current	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR02	1005 (0402)×2	1A/Element	50mΩ Max	-55 to +155	YES
MNR04	1005 (0402)×4	1A/Element			YES
MNR12	1608 (0603)×2	1A/Element			YES
MNR14	1608 (0603)×4	1A/Element			YES

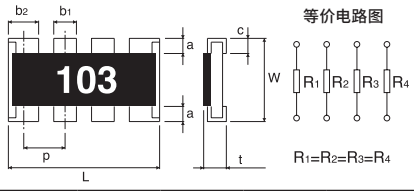
尺寸 (单位：mm)

●MNR02/MNR12 (MNR02无标记)
标记方法有所不同。



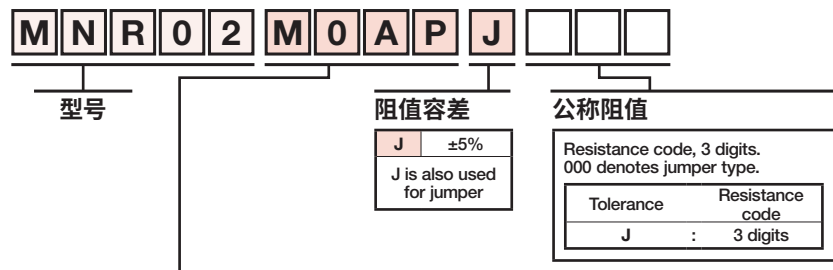
Part No.	L	W	t	a	b ₂	c	p
MNR02	1.0±0.1	1.0±0.1	0.35±0.1	0.2±0.1	0.33 ^{+0.1} _{-0.05}	0.25±0.1	0.68
MNR12	1.6±0.1	1.6±0.1	0.5±0.1	0.3±0.2	0.6±0.15	0.25±0.15	0.8

●MNR04/MNR14 (MNR04无标记)
标记方法有所不同。



Part No.	L	W	t	a	b ₁	b ₂	c	p
MNR04	2.0±0.1	1.0±0.1	0.35±0.1	0.2±0.1	0.3±0.1	0.4±0.1	0.25±0.1	0.5
MNR14	3.2±0.1	1.6±0.1	0.5±0.1	0.3±0.2	0.4±0.15	0.6±0.15	0.25±0.15	0.8

品名构成说明



包装规格代码

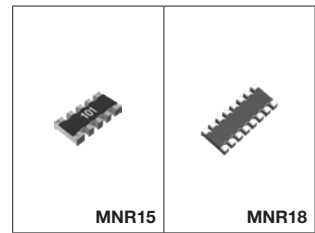
Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
MNR02	M0AP	◎	—	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000
MNR04	M0AP	◎	—	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000
MNR12	E0AP	◎	—	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MNR14	E0AP	◎	—	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000

卷轴 (φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

厚膜贴片电阻器(通用型)

8个元件内置型贴片排阻：MNR系列(0603尺寸×5~0602尺寸×8)

- 8个元件内置于一个封装中，有助于节省空间、降低成本
- 采用凸型电极有助于对焊脚进行目测检查，上述检查可采用自动检测工具
- 适用于上拉电阻和阻尼电阻
- 无方向性，防止发生错误安装



MNR系列(0603尺寸×5~0602尺寸×8)										
Part No.	Size Code mm (inch)	No. of Terminals	No. of Elements	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR15	1608 (0603)×5	10	8	0.031W/Element	12.5	J (±5%)	±200	56Ω to 100kΩ (E24 series)	-55 to +125	YES
MNR18	1605 (0602)×8	16	8	0.063W/Element*	25	J (±5%)	±200	10Ω to 1MΩ (E24 series)	-55 to +125	YES

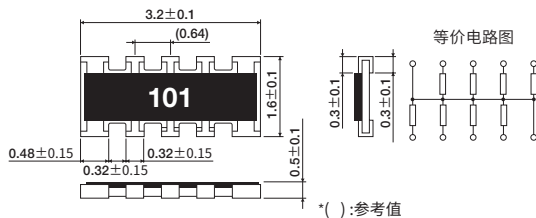
*但不得超过0.25W

跳线类型					
Part No.	Size Code mm (inch)	Rated Current	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR18	1605 (0602)×8	1A/Element*	50mΩ Max	-55 to +125	YES

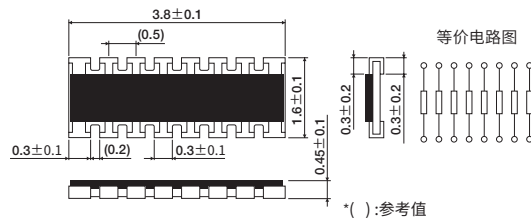
*但不得超过4A

尺寸 (单位：mm)

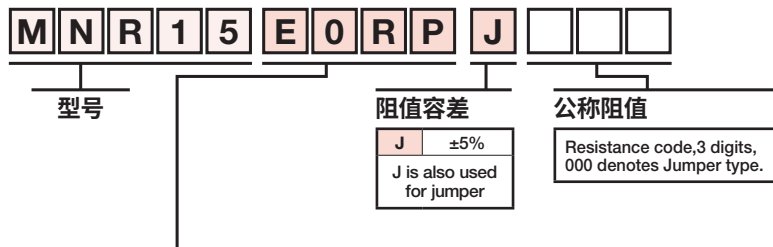
●MNR15



●MNR18 (无标记)



品名构成说明



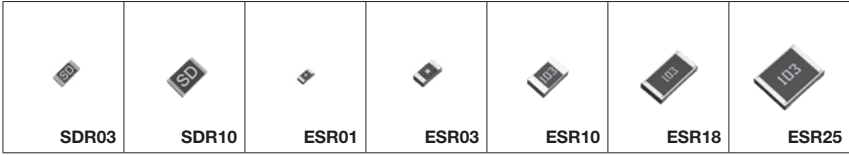
包装规格代码

Part No.	Code	Tolerance J (±5%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
MNR15	E0RP	◎	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MNR18	E0AP	◎	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000

卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

厚膜贴片电阻器(高可靠型) 高抗浪涌贴片电阻器：SDR系列 抗浪涌贴片电阻器：ESR系列

- 采用自创的电阻元件布线、微调技术,大幅提升抗浪涌特性
- 额定功率比通用系列产品大,有助于设备省空间设计



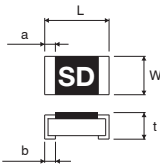
SDR系列								
Part No.	Size Code mm (inch)	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SDR03	1608 (0603)	0.3W	150	J (±5%)	±200	1Ω to 10MΩ (E24 series)	-55 to +155	YES
				F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
				D (±0.5%)	±100	10Ω to 10MΩ (E24, E96 series)		
SDR10	2012 (0805)	0.5W	400	J (±5%)	±200	1Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
				D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
ESR系列								
ESR01	1005 (0402)	0.2W	50	J (±5%)	+500/-250 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)	-55 to +155	YES
				F (±1%)	±100	10Ω to 976kΩ (E24, E96 series) 1MΩ to 2.2MΩ (E24 series)		
ESR03	1608 (0603)	0.25W	150	J (±5%)	±200	1Ω to 10MΩ (E24 series)		YES
				F (±1%)	±200 ±100	1Ω to 9.76Ω (E24, E96 series) 10Ω to 10MΩ (E24, E96 series)		
				D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
ESR10	2012 (0805)	0.4W	150	J (±5%)	±200	1Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
				D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
ESR18	3216 (1206)	0.5W	200	J (±5%)	±200	1Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
				D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
ESR25	3225 (1210)	0.66W (2/3W)	200	J (±5%)	±200	1Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
				D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		

*E24：标准品/E96：订购生产品

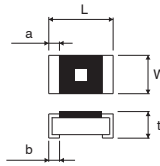
尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
SDR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.25±0.1	0.25±0.1
SDR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.25±0.1	0.4±0.2
ESR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	0.25 ^{+0.05} _{-0.1}
ESR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
ESR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.3±0.2	0.4±0.2
ESR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.25	0.5±0.25
ESR25	3225 (1210)	3.2±0.15	2.5±0.15	0.55±0.1	0.3±0.25	0.5±0.25

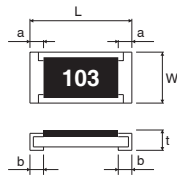
●SDR03/10 (有“SD”标记)



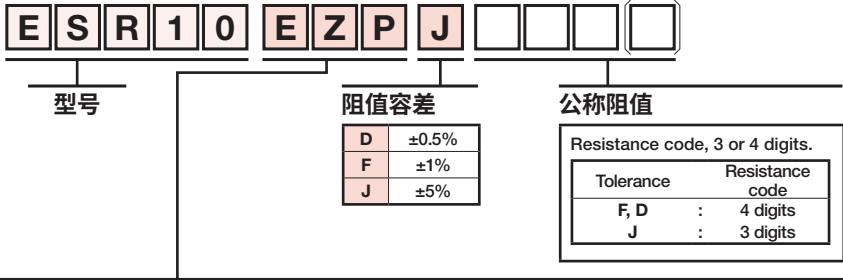
●ESR01/03 (有“■”标记)



●ESR10/18/25



品名构成说明



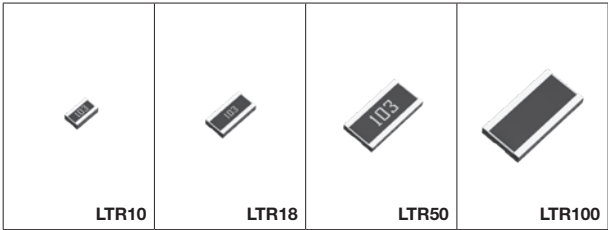
包装规格代码

Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
SDR03	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
SDR10	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
ESR01	MZP	○	○	—	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000
ESR03	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
ESR10	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
ESR18	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
ESR25	JZP	○	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	4,000

卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
○：标准产品

厚膜贴片电阻器(高可靠型) 大功率贴片电阻器 <长边电极型> <抗浪涌>：LTR系列

- 通过采用长边电极结构，大幅提升对于温度变化的连接可靠性
- 额定功率比通用系列产品大，有助于设备省空间设计
- 通过不使电流集中的电阻元件设计，大幅提升抗电涌特性

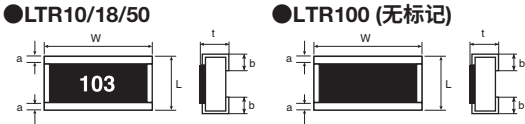


LTR系列									
Part No.	Size Code mm (inch)	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200	
LTR10	1220 (0508)	0.25W	150	J (±5%)	±200	1Ω to 1MΩ (E24 series)	-55 to +155	YES	
		☆1W*		F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)			
				D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)			
LTR18	1632 (0612)	New 1.5W (95°C)*	200	J (±5%)	±200	1Ω to 976Ω (E24 series)		YES	
				F (±1%)	±100	1Ω to 976Ω (E24, E96 series)			
				D (±0.5%)	±100	10Ω to 976Ω (E24, E96 series)			
		0.75W		J (±5%)	±200	1kΩ to 1MΩ (E24 series)			
				F (±1%)	±100	1kΩ to 1MΩ (E24, E96 series)			
				D (±0.5%)	±100	1kΩ to 1MΩ (E24, E96 series)			
LTR50	2550 (1020)	1W	200	J (±5%)	±200	1Ω to 1MΩ (E24 series)		YES	
		☆2W*		F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)			
				D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)			
LTR100	3264 (1225)	2W	200	J (±5%)	±200	1Ω to 1MΩ (E24 series)		YES	
				F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)			
		☆3W*		D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)			

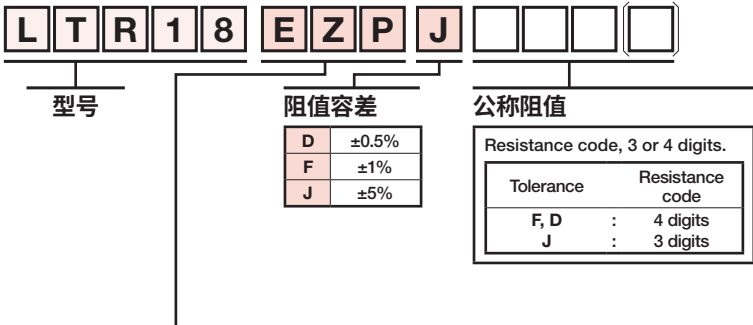
☆：开发中
*通过引脚温度降额确保(LTR18：1Ω to 976Ω)
(LTR18)小于1kΩ：保证引脚温度(95°C)，1kΩ以上：保证环境温度(70°C)。

尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
LTR10	1220 (0508)	1.2±0.1	2.0±0.1	0.55±0.1	0.25±0.1	0.35±0.2
LTR18	1632 (0612)	1.6±0.15	3.2±0.15	0.55±0.1	0.3±0.2	0.5±0.2
LTR50	2550 (1020)	2.5±0.15	5.0±0.15	0.55±0.1	0.38±0.2	0.9±0.2
LTR100	3264 (1225)	3.2±0.15	6.4±0.15	0.55±0.15	0.4±0.25	1.13±0.25



品名构成说明



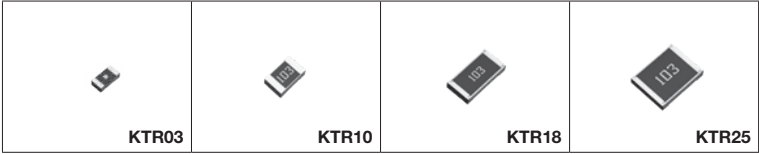
包装规格代码

Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
LTR10	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
LTR18	EZP	○	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
LTR50	UZP	○	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	5,000
LTR100	JZP	○	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	4,000

卷轴(φ180mm)：遵循JEITA规格 "EIAJ ET-7200B"
○：标准产品

厚膜贴片电阻器(高可靠型)
高耐压贴片电阻器：KTR系列

- 元件最高电压是通用系列产品的2倍以上
- 适用于高电压负载的分压电路



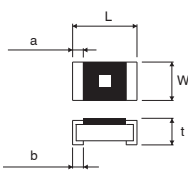
KTR系列								
Part No.	Size Code mm (inch)	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
KTR03	1608 (0603)	0.1W	350	J (±5%)	±200	1Ω to 1MΩ (E24 series)	-55 to +155	YES
				F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
					±100	10Ω to 10MΩ (E24, E96 series)		
KTR10	2012 (0805)	0.125W	400	J (±5%)	±200	1Ω to 30MΩ (E24 series)		YES
				F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
KTR18	3216 (1206)	0.25W	500	J (±5%)	±200	1Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
KTR25	3225 (1210)	0.33W (1/3W)	600	J (±5%)	±200	1Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		

*E24：标准品/E96：订购生产产品

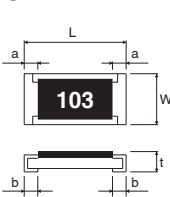
尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
KTR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
KTR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.3±0.2	0.4±0.2
KTR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.25	0.5±0.25
KTR25	3225 (1210)	3.2±0.15	2.5±0.15	0.55±0.1	0.3±0.25	0.5±0.25

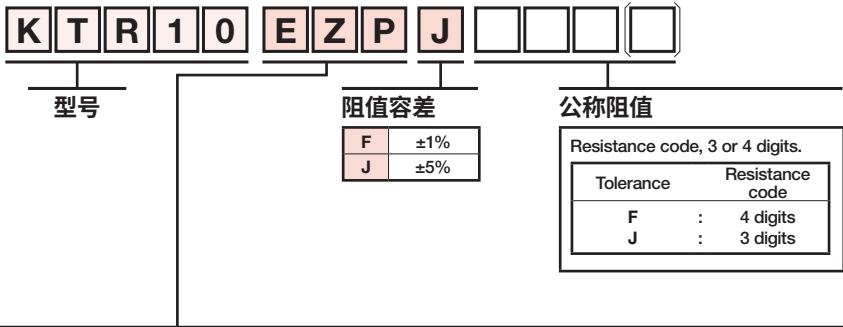
●KTR03
(有“■”标记)



●KTR10/18/25



品名构成说明



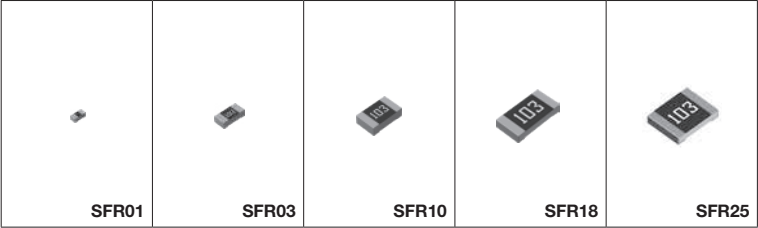
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
KTR03	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
KTR10	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
KTR18	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
KTR25	JZP	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	4,000

卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
○：标准产品

厚膜贴片电阻器(高可靠型) 抗硫化贴片电阻器：SFR系列

•采用罗姆自有的结构，大幅提升抗硫化性能



SFR系列								
Part No.	Size Code mm (inch)	Rated Power (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SFR01	1005 (0402)	0.063W (1/16W)	50	J (±5%)	+500/-250 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)	-55 to +155	YES
				F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		
SFR03	1608 (0603)	0.1W	50	J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	10Ω to 10MΩ (E24, E96 series)		
SFR10	2012 (0805)	0.125W	150	J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		
SFR18	3216 (1206)	0.25W	200	J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		YES
				F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		
SFR25	3225 (1210)	0.5W	200	J (±5%)	±200	1Ω to 1MΩ (E24 series)		YES
				F (±1%)	±100	10Ω to 1MΩ (E24, E96 series)		

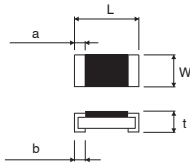
*E24：标准品/E96：订购产品

跳线类型					
Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
SFR01	1005 (0402)	1	50mΩ Max	-55 to +155°C	YES
SFR03	1608 (0603)	1			YES
SFR10	2012 (0805)	2			YES
SFR18	3216 (1206)	2			YES
SFR25	3225 (1210)	2			YES

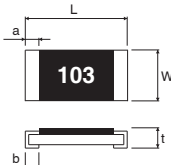
尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
SFR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.33±0.08	0.25 ^{+0.05} _{-0.10}
SFR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.4±0.2	0.3±0.2
SFR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2
SFR18	3216 (1206)	3.2 ^{+0.15} _{-0.20}	1.6±0.15	0.55±0.1	0.55±0.25	0.5±0.25
SFR25	3225 (1210)	3.2 ^{+0.15} _{-0.20}	2.5±0.15	0.55±0.1	0.55±0.25	0.5±0.25

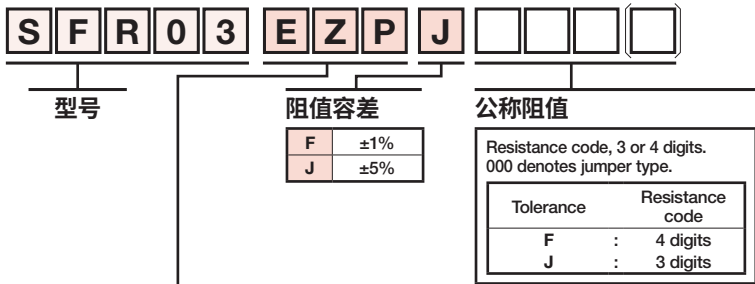
●SFR01 (无标记)



●SFR03/10/18/25



品名构成说明



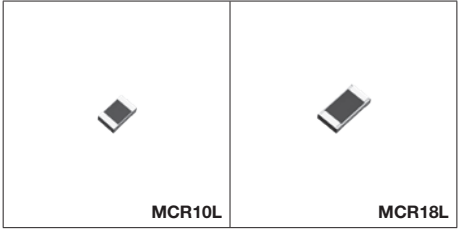
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
SFR01	MZP	○	○	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000
SFR03	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
SFR10	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
SFR18	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
SFR25	JZP	○	○	Embossed tape (4mm Pitch)	φ180mm (8inch)	4,000

卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
○：标准产品

电流检测用 贴片电阻器(厚膜型)
通用贴片电阻器：New MCR低阻值系列(0805~1206尺寸)

- 通过电阻元件的重新布线，实现了与大一尺寸产品同等的额定功率
- 低阻值 (47mΩ及以上)，厚电阻体
- 采用了金属釉阻体的高可靠性贴片电阻器



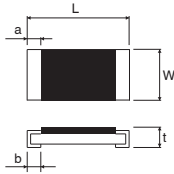
New MCR低阻值系列							
Part No.	Size Code mm (inch)	Rated Power (70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
New MCR10L	2012 (0805)	0.5W	J (±5%)	0 to 250	47mΩ to 110mΩ (E24 series)	-55 to 155	YES
				0 to 150	120mΩ to 910mΩ (E24 series)		
			F (±1%)	0 to 250	47mΩ to 110mΩ (E24 series)		
				0 to 150	120mΩ to 910mΩ (E24 series)		
☆MCR18L	3216 (1206)	0.75W	J (±5%)	0 to 250	47mΩ to 91mΩ (E24 series)		YES
				0 to 150	100mΩ to 910mΩ (E24 series)		
			F (±1%)	0 to 250	47mΩ to 91mΩ (E24 series)		
				0 to 150	100mΩ to 910mΩ (E24 series)		

☆：开发中

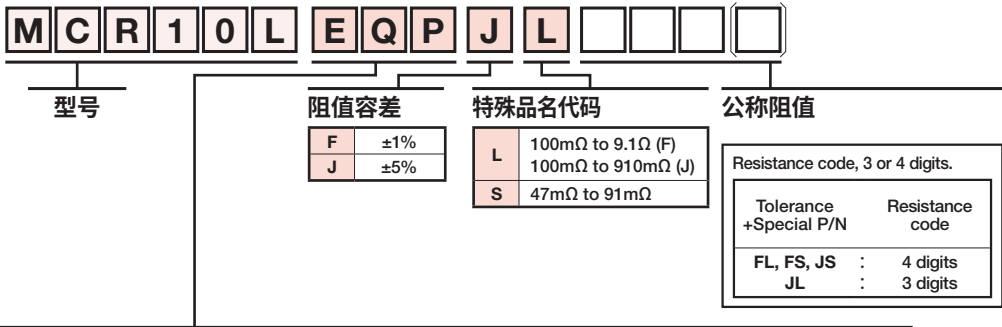
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR10L	2012 (0805)	2.0±0.1	1.25±0.1	0.58±0.1	0.60 to 0.45 ±0.20	0.4 ±0.2
MCR18L	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.90 to 0.75 ±0.25	0.5 ±0.25

●MCR10L/18L (无标记)



■品名构成说明



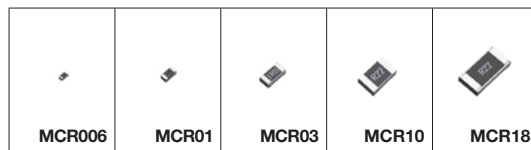
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J(±5%)	F(±1%)			
MCR10L	EQP	◎	◎	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MCR18L	EQP	◎	◎	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000

卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

电流检测用贴片电阻器(厚膜型) 通用贴片电阻器/低阻值：MCR低阻值系列

- 低阻值(47mΩ及以上)，厚电阻体
- 采用了金属釉阻体的高可靠性贴片电阻器



MCR低阻值系列							
Part No.	Size Code mm (inch)	Rated Power (70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR006	0603 (0201)	0.05W	F (±1%)	+600/-200	1Ω to 9.1Ω (E24 series)	-55 to +155	YES
MCR01	1005 (0402)	0.063W (1/16W)	F (±1%)	±400	1Ω to 9.1Ω (E24 series)		YES
MCR03	1608 (0603)	0.1W	F (±1%)	±400	1Ω to 9.1Ω (E24 series)		YES
MCR10	2012 (0805)	0.25W	J (±5%) F (±1%)	*Table 1 *Table 1	47mΩ to 910mΩ (E24 series) 47mΩ to 9.1Ω (E24 series)		YES
MCR18	3216 (1206)	0.25W	J (±5%) F (±1%)	*Table 1 *Table 1	47mΩ to 910mΩ (E24 series) 47mΩ to 9.1Ω (E24 series)		

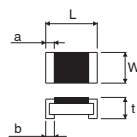
*表1

Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range
J (±5%) F (±1%)	500±300	47mΩ to 91mΩ (E24 series)
	400±200	100mΩ to 130mΩ (E24 series)
	±250	150mΩ to 9.1Ω (E24 series)

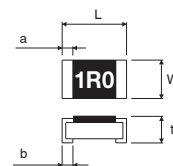
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR006	0603 (0201)	0.6±0.03	0.3±0.03	0.23±0.03	0.1±0.05	0.15±0.05
MCR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	0.25 ^{+0.05} _{-0.1}
MCR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
MCR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2
MCR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.5±0.25	0.5±0.25

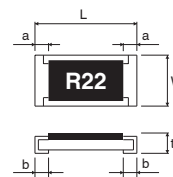
●MCR006/01 (无标记)



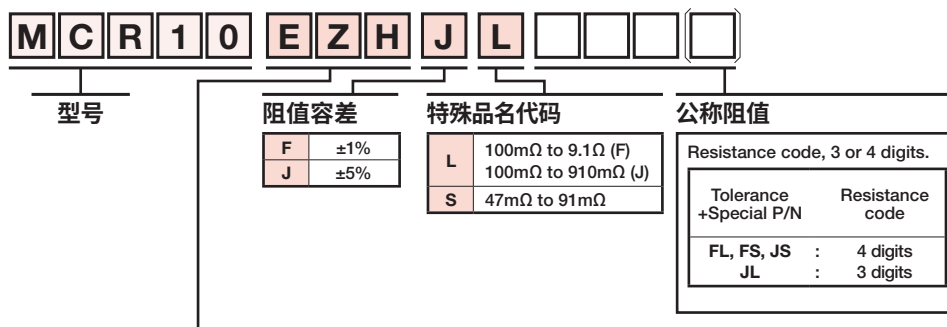
●MCR03



●MCR10/18



■品名构成说明



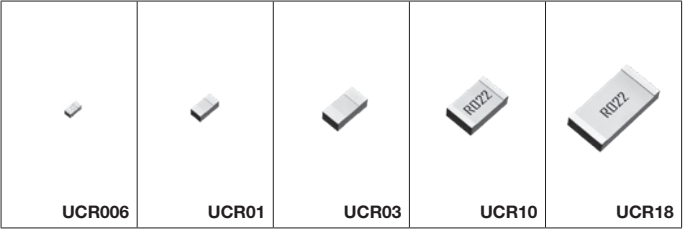
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
MCR006	YLP	—	○	Paper tape (2mm Pitch)	φ180mm (7inch)	15,000
MCR01	MZP	—	○	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000
MCR03	EZP	—	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MCR10	EZH	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
MCR18	EZH	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000

卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
○：标准产品

电流检测用贴片电阻器(厚膜型) 背面电极型 贴片电阻器：UCR系列

- 电流检测用贴片电阻器(11mΩ及以上)
- 采用背面贴装结构，减少贴装时的阻值偏差
- 采用自创的散热设计，实现优良的额定功率

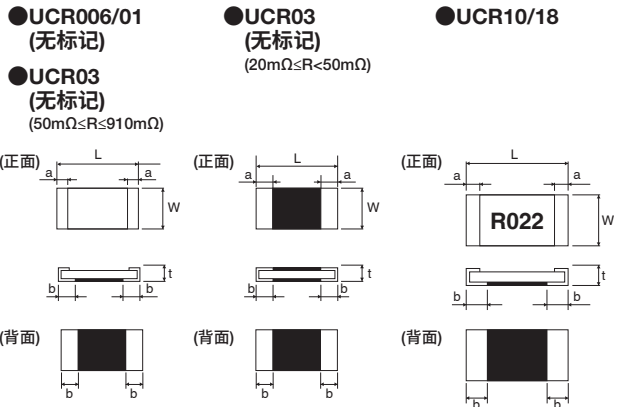


UCR系列							
Part No.	Size Code mm (inch)	Rated Power (70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
UCR006	0603 (0201)	0.1W	J (±5%)	0 to 300	100mΩ to 910mΩ (E24 series)	-55 to +155	YES
			F (±1%)				
UCR01	1005 (0402)	0.125W	J (±5%)	0 to 300	68mΩ to 91mΩ (E24 series)		YES
			F (±1%)	0 to 250 0 to 200	100mΩ to 200mΩ (E24 series) 220mΩ to 910mΩ (E24 series)		
UCR03	1608 (0603)	0.25W	J (±5%)	0 to 250	20mΩ to 47mΩ (E24 series)		YES*
			F (±1%)	0 to 200 0 to 150	51mΩ to 91mΩ (E24 series) 100mΩ to 200mΩ (E24 series)		
		0.2W	J (±5%)	0 to 150	220mΩ to 910mΩ (E24 series)		
			F (±1%)				
UCR10	2012 (0805)	0.33W (1/3W)	J (±5%)	250±200 0 to 250	11mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series)		YES
			F (±1%)	0 to 150	51mΩ to 100mΩ (E24 series)		
UCR18	3216 (0805)	1W	J (±5%)	0 to 350	11mΩ to 18mΩ (E24 series)		YES
			F (±1%)	0 to 200	20mΩ to 39mΩ (E24 series)		
		0.5W	J (±5%)	0 to 150	43mΩ to 100mΩ (E24 series)		
			F (±1%)				

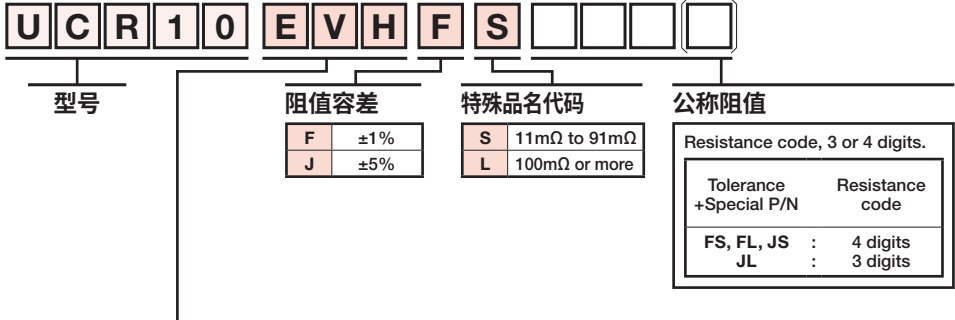
*仅限100mΩ及以上

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
UCR006	0603 (0201)	0.62±0.05	0.32±0.05	0.24±0.05	0.18±0.1	0.22±0.1
UCR01	1005 (0402)	1.0±0.1	0.55±0.1	0.37±0.05	0.28±0.1	0.34±0.1
UCR03	1608 (0603)	1.6±0.1	0.87±0.1	0.5±0.1	0.45±0.2	0.45±0.2
UCR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.24±0.2	0.5±0.2
UCR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.2	0.9±0.25



■品名构成说明



包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)	Remarks
		J (±5%)	F (±1%)				
UCR006	YVP	○	○	Paper tape (2mm Pitch)	φ180mm (7inch)	15,000	—
UCR01	MVP	○	○	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000	—
UCR03	EWP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000	20mΩ to 47mΩ
	EVP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000	51mΩ to 910mΩ
UCR10	EVH	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000	—
UCR18	EVH	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000	—

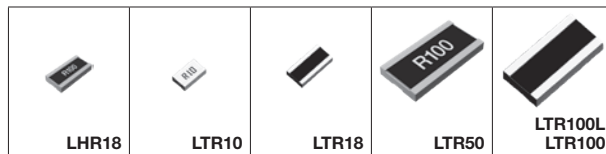
卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

电流检测用贴片电阻器(厚膜型)

大功率贴片电阻器 <长边电极型> (低TCR) : LHR系列

大功率贴片电阻器 <长边电极型> : LTR低阻值系列

- 电流检测用贴片电阻器(10mΩ及以上)
- 通过采用长边电极结构, 大幅提高对于温度变化的连接可靠性
- 额定功率大, 可与小尺寸产品进行替换



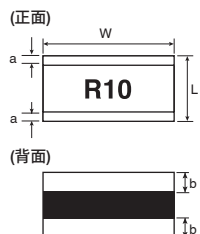
LHR系列							
Part No.	Size Code mm (inch)	Rated Power (70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
LHR18	1632 (0612)	1.25W	J (±5%) F (±1%)	0 to 125 0 to 100 0 to 75	33mΩ to 39mΩ (E24 series) 43mΩ to 270mΩ (E24 series) 300mΩ to 1Ω (E24 series)	-55 to +155	YES
LTR低阻值系列							
LTR10	1220 (0508)	0.5W ☆1W*	J (±5%) F (±1%)	±150	47mΩ to 9.1Ω (E24 series)	-55 to +155	YES
☆LTR10L			J (±5%) F (±1%) D (±0.5%)	0 to 150 0 to 100 0 to 100	33mΩ to 91mΩ (E24 series) 100mΩ to 910mΩ (E24 series) 100mΩ to 910mΩ (E24 series)		YES
LTR18			J (±5%) F (±1%)	0 to 300 0 to 200 0 to 150 ±100	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 470mΩ (E24 series) 510mΩ to 1Ω (E24 series)		YES
LTR50			J (±5%) F (±1%)	0 to 300 0 to 200 0 to 150 ±100	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 91mΩ (E24 series) 100mΩ to 910mΩ (E24 series)		YES
LTR100	3264 (1225)	2W	J (±5%) F (±1%)	±200 0 to 150 0 to 100	100mΩ to 910mΩ (E24 series) 100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)		YES
New LTR100L			J (±5%) F (±1%)	0 to 300 0 to 200 0 to 150	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 91mΩ (E24 series)	-65 to +155	YES

☆: 开发中
*通过引脚温度降额确保

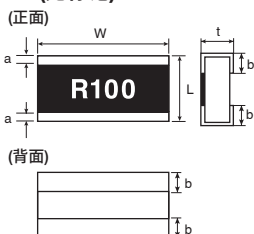
尺寸 (单位: mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
LHR18	1632 (0612)	1.6±0.1	3.2±0.1	0.58±0.1	0.3±0.2	0.5±0.2
LTR10	1220 (0508)	1.2±0.1	2.0±0.1	0.55±0.1	0.3±0.2	0.35±0.2
LTR10L		1.25±0.15	2.0±0.15	0.55±0.1	0.28±0.15	0.35±0.2
LTR18	1632 (0612)	1.6±0.1	3.2±0.1	0.58±0.1	0.5±0.2	0.5±0.2
LTR50	2550 (1029)	2.5±0.15	5.0±0.15	0.58±0.1	0.38±0.2	0.9±0.2
LTR100	3264 (1225)	3.2±0.15	6.4±0.15	0.55±0.15	0.4±0.25	1.13±0.25
LTR100L		3.1±0.15	6.4±0.15	0.58±0.15	0.5±0.25	1.0±0.25

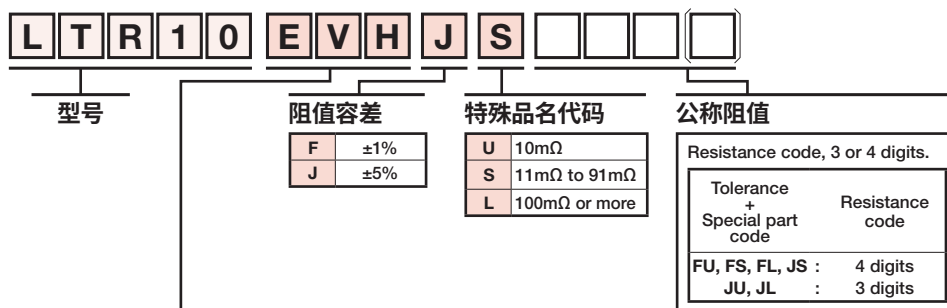
● LTR10/LTR10L



● LHR18/LTR50 (标记) ● LTR18/LTR100/LTR100L (无标记)



品名构成说明



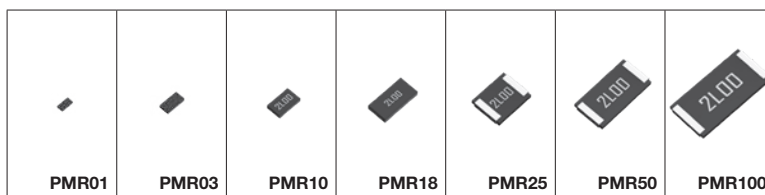
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
LHR18	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
LTR10	EVH	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
LTR10L*	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
LTR18	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
LTR50	UZP	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	5,000
LTR100	JZP	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	4,000
LTR100L	JZP	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	4,000

◎: 标准产品
*LTR10L 100mΩ to 910mΩ对应D级(±0.5%)

电流检测用贴片电阻器(金属板型) 金属板分流电阻器/超低阻值：PMR系列

- 电流检测用贴片电阻器(1mΩ及以上)
- 采用无微调结构，避免热集中，减少表面温度上升
- 电阻体采用特殊合金，实现优良的温度特性



PMR系列							
Part No.	Size Code mm (inch)	Rated Power (Rated Ambient Temperature 70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PMR01	1005 (0402)	0.2W	J (±5%)	0 to 200	10	-55 to +155	YES
PMR03	1608 (0603)	0.25W	J (±5%) F (±1%)	0 to 150	10		YES
PMR10	2012 (0805)	0.5W	J (±5%) F (±1%)	±150	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR18	3216 (1206)	1W	J (±5%) F (±1%)	±100	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR25	3225 (1210)	1W	J (±5%) F (±1%)	±100	2, 3, 4, 5		YES
PMR50	5025 (2010)	1W	J (±5%) F (±1%)	±100	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR100	6432 (2512)	2W	J (±5%) F (±1%)	±150 ±100	3, 4, 5, 6, 7, 8, 9, 10		YES

提高额定功率的PMR系列							
Part No.	Size Code mm (inch)	Rated Power (Rated Terminal Temperature 130°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
New PMR10	2012 (0805)	1W*	J (±5%) F (±1%)	±100	2	-65 to +155	YES
New PMR18	3216 (1206)	1.5W*	J (±5%) F (±1%)	±100	1, 2		YES
New PMR25	3225 (1210)	2W*	J (±5%) F (±1%)	±75	1	-65 to +175	YES
New PMR50	5025 (2010)	2W*	J (±5%) F (±1%)	±75	1, 2		YES
New PMR100	6432 (2512)	3W*	J (±5%) F (±1%)	±150 ±75	1, 2		YES

*通过引脚温度降额确保

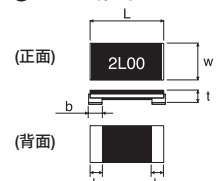
大电流跳线类型					
Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
PMR01	1005 (0402)	20.0	0.5mΩ Max	-55 to +155	YES
PMR03	1608 (0603)	22.4			YES
PMR10	2012 (0805)	31.6			YES
PMR18	3216 (1206)	38.7			YES
PMR25	3225 (1210)	44.7			YES
PMR50	5025 (2010)	50.0			YES
PMR100	6432 (2512)	63.2			YES

尺寸 (单位: mm)

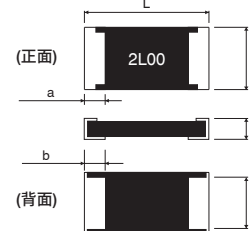
Part No.	Size Code mm (inch)	L	W	t	a	b	c
PMR01	1005 (0402)	1.0±0.05	0.5±0.05	0.25±0.1	—	0.25±0.10	—
PMR03	1608 (0603)	1.6±0.15	0.8±0.15	0.25±0.1	—	0.35±0.15	—
PMR10	2012 (0805)	2.0±0.15	1.2±0.15	0.42 to 0.28*±0.15	—	0.75 to 0.35*±0.25	—
PMR18	3216 (1206)	3.2±0.15	1.6±0.15	0.44 to 0.28*±0.15	—	1.20 to 0.5 *±0.25	—
PMR25	3225 (1210)	3.2±0.2	2.5±0.2	0.52 to 0.32*±0.15	0.5±0.2	1.00 to 0.8 *±0.2	1.95±0.2
PMR50	5025 (2010)	5.0±0.2	2.5±0.2	0.52 to 0.32*±0.15	0.5±0.2	1.85 to 0.9 *±0.2	1.95±0.2
PMR100	6432 (2512)	6.4±0.25	3.2±0.25	0.52 to 0.32*±0.15	0.5±0.25	2.3 to 1.1 *±0.25	2.65±0.25

*根据阻值不同而有所不同。详情请咨询罗姆的销售代表。

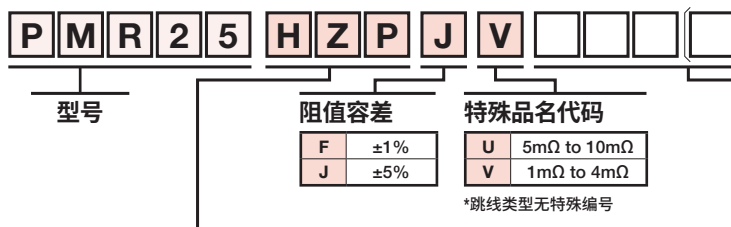
●PMR01/03 (无标记)
●PMR10/18



●PMR25/50/100



品名构成说明



包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
PMR01	ZZP	○	—	Embossed tape (2mm Pitch)	φ180mm (7inch)	10,000
PMR03	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
PMR10	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
PMR18	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
PMR25	HZP	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	2,000
PMR50	HZP	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	2,000
PMR100	HZP	○	○	Embossed tape (4mm Pitch)	φ180mm (7inch)	2,000

卷轴(φ180mm): 遵循JEITA规格 "EIAJ ET-7200B"
◎: 标准产品

公称阻值

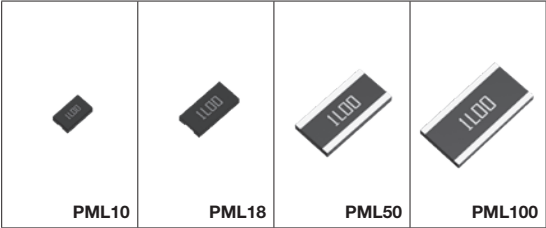
Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance	Resistance code
F	: 4 digits
J	: 3 digits

Resistance Value (Ω)	Tolerance	
	J	F
Jumper	000	—
1mΩ	1L0	1L00
2mΩ	2L0	2L00
3mΩ	3L0	3L00
4mΩ	4L0	4L00
5mΩ	5L0	5L00
6mΩ	6L0	6L00
7mΩ	7L0	7L00
8mΩ	8L0	8L00
9mΩ	9L0	9L00
10mΩ	10L	10L0

电流检测用贴片电阻器(金属板型) 金属板分流电阻器/长边电极型・超低阻值：PML系列

- 超低阻值范围(0.5mΩ及以上)
- 采用长边电极结构，提高接合可靠性和散热性
- 采用无微调结构，避免热集中，减少表面温度上升



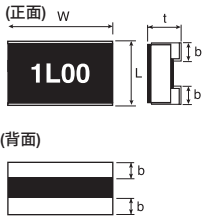
PML系列							
Part No.	Size Code mm (inch)	Rated Power (70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PML10	1220 (0508)	0.66W (2/3W)	J (±5%) G (±2%)	±200	1.0, 1.5, 2.0, 2.5	-55 to +155	YES
PML18	1632 (0612)	1W	J (±5%) G (±2%)	±150	0.5, 1.0, 1.5, 2.0, 2.5		YES
PML50	2550 (1020)	2W	J (±5%)	±150 ±100	0.5 2.2		YES
PML100	3264 (1225)	2W (3W at 25°C) 2W	J (±5%)	±100 ±150	1.0, 1.5, 2.0, 2.2 0.5		YES

尺寸 (单位：mm)

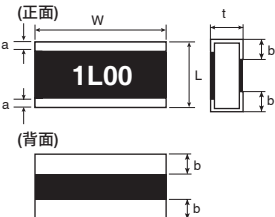
Part No.	Size Code mm (inch)	L	W	t	a	b
PML10	1220 (0508)	1.2±0.15	2.0±0.15	0.42 to 0.28 ±0.15	—	0.45 to 0.35 ±0.25
PML18	1632 (0612)	1.6±0.15	3.2±0.15	0.42 to 0.28* ±0.15	—	0.55 to 0.35 ±0.25
PML50	2550 (1020)	2.6±0.20	5.0±0.2	0.5 to 0.36* ±0.15	0.4±0.2	0.75 to 0.7* ±0.2
PML100	3264 (1225)	3.2±0.25	6.4±0.25	0.5 to 0.36* ±0.15	0.45±0.25	0.9 to 0.7* ±0.25

*根据阻值不同而有所不同。详情请咨询罗姆的销售代表。

●PML10/18



●PML50/100



品名构成说明

P	M	L	5	0	H	Z	P	J	V																											
型号					阻值容差		特殊品名代码		公称阻值																											
					G	±2%			Resistance code, 3 or 4 digits.																											
					J	±5%			<table><tr><td colspan="2">Tolerance</td><td colspan="2">Resistance code</td></tr><tr><td>J</td><td>:</td><td colspan="2">3 digits</td></tr><tr><td>G</td><td>:</td><td colspan="2">4 digits</td></tr></table>					Tolerance		Resistance code		J	:	3 digits		G	:	4 digits												
Tolerance		Resistance code																																		
J	:	3 digits																																		
G	:	4 digits																																		
									<table><tr><td rowspan="2">Resistance Value (Ω)</td><td colspan="2">Tolerance</td></tr><tr><td>J</td><td>G</td></tr><tr><td>0.5mΩ</td><td>0L5</td><td>0L50</td></tr><tr><td>1mΩ</td><td>1L0</td><td>1L00</td></tr><tr><td>1.5mΩ</td><td>1L5</td><td>1L50</td></tr><tr><td>2mΩ</td><td>2L0</td><td>2L00</td></tr><tr><td>2.2mΩ</td><td>2L2</td><td>—</td></tr><tr><td>2.5mΩ</td><td>2L5</td><td>2L50</td></tr></table>					Resistance Value (Ω)	Tolerance		J	G	0.5mΩ	0L5	0L50	1mΩ	1L0	1L00	1.5mΩ	1L5	1L50	2mΩ	2L0	2L00	2.2mΩ	2L2	—	2.5mΩ	2L5	2L50
Resistance Value (Ω)	Tolerance																																			
	J	G																																		
0.5mΩ	0L5	0L50																																		
1mΩ	1L0	1L00																																		
1.5mΩ	1L5	1L50																																		
2mΩ	2L0	2L00																																		
2.2mΩ	2L2	—																																		
2.5mΩ	2L5	2L50																																		

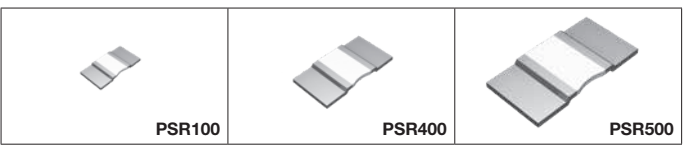
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	G (±2%)			
PML10	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
PML18	EZP	○	○	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
PML50	HZP	○	—	Embossed tape (4mm Pitch)	φ180mm (7inch)	2,000
PML100	HZP	○	—	Embossed tape (4mm Pitch)	φ180mm (7inch)	2,000

卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
○：标准产品

电流检测用贴片电阻器(金属板型)
大功率金属板分流电阻器/超低阻值：PSR系列

- 3W~15W大功率
- 超低阻值范围(0.1mΩ及以上)
- 优良的温度特性
- 采用凸型形状



大额定值PSR系列							
Part No.	Size Code mm (inch)	Rated Power (Rated Terminal Temperature)	Tolerance	Temperature* coefficient (ppm/°C)	Resistance Range (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PSR100	6432 (2512)	8W (75°C), 4W (140°C)	F (±1%)	0 to +150	0.3	-65 to +175	YES
		0 to +115		0.5			
		6W (75°C), 4W (140°C)		0 to +100	1.0		
		4W (75°C), 3W (140°C)		0 to +50	2.0		
PSR400	10×5.2 (3921)	4W (75°C), 3W (140°C)	F (±1%)	0 to +50	New 3.0		YES
		12W (75°C), 5W (130°C)		125±50	0.2		
		10W (75°C), 5W (130°C)		0 to +100	New 0.3		
		10W (75°C), 5W (130°C)		0 to +100	0.5		
		8W (75°C), 5W (130°C)		0 to +75	1.0		
		6W (75°C), 4W (115°C)		0 to +75	New 2.0		
		5W (70°C), 3W (115°C)		0 to +75	3.0		
		PSR500		15×7.75 (5931)	15W (75°C), 10W (120°C)		
15W (75°C), 10W (120°C)	0 to +100		New 0.2				
10W (75°C), 7W (120°C)	0 to +100		New 0.3				
10W (75°C), 7W (120°C)	0 to +100		New 0.4				
10W (75°C), 7W (120°C)	0 to +100		0.5				
10W (75°C), 6W (120°C)	0 to +75		1.0				
7W (70°C), 4W (115°C)	0 to +75		2.0				

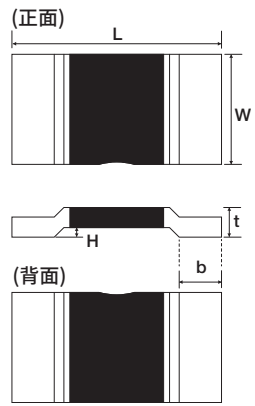
*±20° C to +175°

*(+20° C to +175° C)

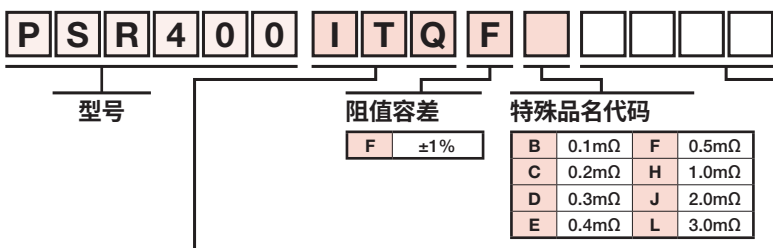
尺寸 (单位：mm)

Part No.	Resistance	L	W	t	H	b
PSR100	0.3mΩ	6.35±0.15	3.05±0.25	1.45±0.15	0.35±0.15	1.12±0.3
	0.5mΩ			1.15±0.15		
	1.0mΩ			0.75±0.15		
	2.0mΩ			1.00±0.15		
	3.0mΩ			0.75±0.15		
PSR400	0.2mΩ	10±0.3	5.2±0.3	1.9±0.15	0.5±0.15	2.0±0.6
	0.3mΩ			1.85±0.15		
	0.5mΩ			1.3±0.15		
	1.0mΩ			0.9±0.15		
	2.0mΩ			1.1±0.15		
PSR500	0.3mΩ	15±0.3	7.75±0.3	0.9±0.15	0.5±0.15	4.0±0.6
	0.1mΩ			1.96±0.15		
	0.2mΩ			1.85±0.15		
	0.3mΩ			1.4±0.15		
	0.4mΩ			1.15±0.15		
	0.5mΩ			1.05±0.15		
	1.0mΩ			1.35±0.15		
	2.0mΩ			0.9±0.15		

PSR100/400/500



品名构成说明



包装规格代码

Part No.	Code	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
PSR100	KTQ	◎	Embossed tape (8mm Pitch)	φ330mm (13inch)	5,000
PSR400	ITQ	◎	Embossed tape (8mm Pitch)	φ330mm (13inch)	3,000
PSR500	HTQ	◎	Embossed tape (12mm Pitch)	φ330mm (13inch)	2,000

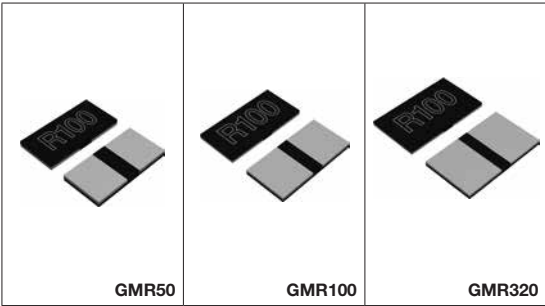
◎：标准产品 卷轴 (φ330mm)：遵循JEITA规格“EIAJ ET-7200B”

公称阻值

Resistance code, 4 digits.	
Tolerance	Resistance code
F	: 4 digits
Resistance	F
0.1mΩ	0L10
0.2mΩ	0L20
0.3mΩ	0L30
0.4mΩ	0L40
0.5mΩ	0L50
1.0mΩ	1L00
2.0mΩ	2L00
3.0mΩ	3L00

电流检测用贴片电阻器(金属板型) 大功率 低阻值 分流电阻器：GMR系列

- 3W~10W大功率
- 优良的散热性能
- 优良的温度特性
- 阻值范围5mΩ~220mΩ

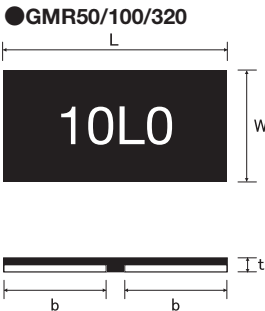


GMR系列							
Part No.	Size Code mm (inch)	Rated Power (Rated Terminal Temperature)	Tolerance	Temperature ^{*1} Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
New GMR50	5025 (2010)	4W (90°C), 3W (110°C)	F (±1%)	0 to +25 ±25	5mΩ 10mΩ to 220mΩ (E24 series) ^{*2}	-65 to +170	YES
New GMR100	6432 (2512)	7W (70°C), 5W (110°C)	F (±1%)	0 to +25 ±20	5mΩ 10mΩ to 220mΩ (E24 series) ^{*2}		YES
New GMR320	7142 (2817)	10W (70°C) 7W (110°C)	F (±1%)	0 to +25 ±25	5mΩ 10mΩ to 100mΩ (E24 series) ^{*2}		YES

^{*1} (+20°C to +60°C)
^{*2} 每个电阻值的开发日程不同。请另行联系。

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	b
GMR50	5025 (2010)	5.00±0.25	2.50±0.25	0.40±0.15	2.05±0.25
GMR100	6432 (2512)	6.40±0.25	3.20±0.25	0.40±0.15	2.75±0.25
GMR320	7142 (2817)	7.10±0.25	4.20±0.25	0.40±0.15	3.10±0.25



■品名构成说明

G

M

R

1

0

0

H

J

B

A

F

A

型号

特殊品名代码 I

特殊品名代码 II

公称阻值

*GMR50, GMR320

JA	5mΩ
JB	10mΩ≤R<100mΩ
JC	≥100mΩ

*GMR100

TA	5mΩ
TB	10mΩ≤R<100mΩ
TC	≥100mΩ

A

Product other than E24 series

阻值容差

F	±1%
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A	10mΩ, 100mΩ
D	5mΩ
E	15mΩ, 150mΩ
G	18mΩ
I	22mΩ, 220mΩ
K	27mΩ
M	33mΩ
Q	47mΩ
U	68mΩ
W	82mΩ

Resistance code, 4 digits.

Tolerance	Resistance code
F	: 4 digits

Resistance	F
5mΩ	5L00
10mΩ	10L0
15mΩ	R015
22mΩ	R022
33mΩ	R033
47mΩ	R047
68mΩ	R068
100mΩ	R100
150mΩ	R150
220mΩ	R220

包装规格代码

Part No.	Code	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
GMR50	H	◎	Embossed tape (4mm Pitch)	φ180mm	2,000
GMR100	H	◎	Embossed tape (8mm Pitch)	φ180mm	2,000
GMR320	H	◎	Embossed tape (8mm Pitch)	φ180mm	2,000

◎：标准产品

标准公称阻值等

E3	10				22				47			
E6	10		15		22		33		47		68	
E12	10	12	15	18	22	27	33	39	47	56	68	82
E24	10	11	12	13	15	16	18	20	22	24	27	30
	33	36	39	43	47	51	56	62	68	75	82	91
E96	100	102	105	107	110	113	115	118	121	124	127	130
	133	137	140	143	147	150	154	158	162	165	169	174
	178	182	187	191	196	200	205	210	215	221	226	232
	237	243	249	255	261	267	274	280	287	294	301	309
	316	324	332	340	348	357	365	374	383	392	402	412
	422	432	442	453	464	475	487	499	511	523	536	549
	562	576	590	604	619	634	649	665	681	698	715	732
	750	768	787	806	825	845	866	887	909	931	953	976

■公称阻值

属同一公称范围的系列电阻器如上表所示。
公称阻值由右表所示公比决定。

■关于阻值容差

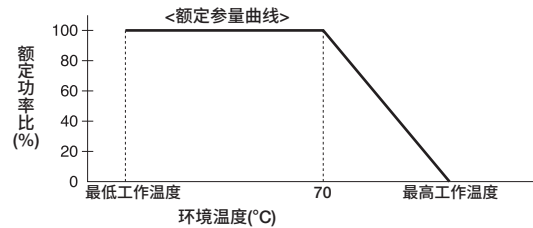
如果阻值容差为±5%，公称阻值用3位数表示；若电阻公差为±1%，公称电阻用4位数表示。其中前2位或前3位数表示有效数字，后一位表示10的幂数。此外字母R或L表示小数点。

- 例1 22Ω→22×10⁰Ω→22 0 (最后一位数字 "0" 表示10的0次方)
例2 47kΩ→47×10³Ω→47 3 (最后一位数字 "3" 表示10的3次方)
例3 1.2MΩ→12×10⁵Ω→12 5 (最后一位数字 "5" 表示10的5次方)
例4 2.7Ω→2R7 (R表示小数点/对象为小于10Ω的低阻值)
例5 1130Ω→113×10¹Ω→113 1 (最后一位数字 "1" 表示10的1次方/阻值容差1%的F级产品)
例6 0.10Ω→R10
例7 1MΩ→1L0

Series	Common ratio	Remarks
E6	$\sqrt[6]{10} \approx 1.46$	Rounded off to a 2-digit figure.
E12	$\sqrt[12]{10} \approx 1.21$	
E24	$\sqrt[24]{10} \approx 1.10$	
E96	$\sqrt[96]{10} \approx 1.02$	Rounded off to a 3-digit figure.

■关于额定功率的补充

•若环境温度超过额定环境温度，则根据额定参量曲线降低负载功率。



(LTR18, LTR100L, PMR系列, PSR系列, GMR系列)

施加电压时的引脚温度超过额定引脚温度时，请根据额定参量曲线降低负载功率。



■有关电阻器使用的基本事项，请参见日本电子资讯技术产业学会 (JEITA) 发行的技术报告 JEITA RCR-2121A[电子产品中的固定电阻使用指南 (电子产品中的固定电阻安全使用指南)]

	Rated terminal Temperature
LTR18	95°C
LTR100L	95°C
PMR series	130°C
PSR series	115 to 140°C*
GMR series	110°C

*Refer to P.237

■补充注释

- *1 若电阻的负载为瞬载(过大负载，如脉冲)，请务必将产品安装于电路板进行性能的评估及确认。若电压持续超过额定电压，则会降低电阻器的性能和可靠性。
请勿将大于电阻器的额定电压加于任何罗姆电阻上。
- *2 额定电压(V)= $\sqrt{\text{额定功率 (W)} \times \text{公称阻值 } (\Omega)}$ 的值或者电路最高电压 (以较小者为准)。

贴片LED

罗姆的贴片LED用于自动表面焊接。且提供多种封装尺寸(从1.0×0.6mm)。
可用于各种用途。

红色(V, U)光强一览表

Package Structure	Package Size (mm)	Height (mm)	I_F (mA)	Luminous Intensity (mcd)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2500	2500 to 3120
Mini-mold	1006	0.2	1		SML-P11VT (R)	SML-P11UT (R)																
			20									SML-P12VT (R)	SML-P12UT (R)	SML-P12U2T (R)								
		0.36										SML-E12V8W	SML-E12U8W	*SML-E12UW								
											SML-D12L8W		SML-D15VW	SML-D14VW (A)*								
	1608	0.55	20									SML-D13VW (A)*	SML-D12V1W	SML-D12V8W		SML-D15UW	SML-D15U2W					
																SML-D14U2W (A)*						
													SML-D13UW (A)*	SML-D13U8W	SML-D12U1W	SML-D12U8W						
	20125	0.8	20																			
Reflector	20125	0.8	20																			
	3020	1.3	20																			
PLCC2	3528	1.9	50																			
			20																			
Side View (mold)	16115	0.55	20																			
Reverse Mount	34125	1.1	10																			
Lens	1608	1.24	20																			
	3216	1.85																				
Package Structure	Package Size (mm)	Height (mm)	I_F (mA)	Luminous Intensity (mcd)	4.5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 12	12 to 14	14 to 16	16 to 18	18 to 20	20 to 22	22 to 25						
Lens	2924	3.1	20																			

橙色(D)光强一览表

Package Structure	Package Size (mm)	Height (mm)	I_f (mA)	Luminous Intensity (mcd)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800	
Mini-mold	1006	0.2	1					SML-P11DT (R)														
			20																			
	1608	0.36	20												SML-P12DT (R)							
														*SML-E12DW								
															SML-E12D8W							
																SML-D15DW						
	0.55																SML-D14DW (A)*					
																		SML-D13DW (A)*				
	20125	0.8	20																			
	20125	0.8	20																			
Reflector			20					SML-O10DT														
	3020	1.3	10												SML-O11DT							
														SML-O11DT (A)*								
																SML-O12DT (A)*						
																	SML-O12D8T					
PLCC2	3528	1.9	50																			
		20																				
Side View (mold)	16115	0.55	20																			
Reverse Mount	34125	1.1	10																			
Lens	1608	1.24	20																			
	3216	1.85																				

Package Structure	Package Size (mm)	Height (mm)	I_f (mA)	Luminous Intensity (cd)	6 to 7	7 to 8	8 to 9	9 to 10	10 to 12	12 to 14	14 to 16	16 to 18	18 to 20	20 to 22	22 to 24	24 to 27	27 to 30	30 to 33	33 to 36	36 to 40	40 to 45	45 to 56
Lens	2924	3.1	20																			

*另有半规格产品。

*1 规格书所示光强包含±10%误差。注：等级标记请参考规格书。

黄色(Y, W)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1006	0.2	1					SML-P11YT (R)					SML-P12YT (R)							
			20										SML-P12Y2T (R)							
		0.36	20										SML-P12YT (R)							
			2										SML-P12WT (R)							
	1608	0.55	20			SML-D11YW							SML-E12Y8W							
						SML-D12W8W (A)*														
																		SML-D15YW		
																		SML-D14YW (A)*		
																		SML-D14WW (A)*		
																		SML-D13WW (A)*		
Reflector	20125	0.8	20																	
			20																	
			20																	
			20																	
	3020	1.3	20																	
PLCC2	3528	1.9	50																	
			20																	
Side View (mold)	16115	0.55	20																	
Reverse Mount	34125	1.1	10																	
Lens	1608	1.24	20																	
			20																	
	3216	1.85																		

黄绿色(M)、绿色(P, F)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1800	1800 to 2500
Mini-mold	1006	0.2	1																		
			20																		
	1608	0.36	20																		
			2																		
	1608	0.55	20																		
Reflector	20125	0.8	20																		
			20																		
			20																		
			20																		
	3020	1.3	20																		
PLCC2	3528	1.9	50																		
			20																		
Side View (mold)	16115	0.55	20																		
Reverse Mount	34125	1.1	20																		
Lens	1608	1.24	20																		
			20																		
	3216	1.85																			

*另备有半规格产品。
*1 规格书所示光强包含±10%误差。 注：等级标记请参考规格书。

贴片LED

绿色(E)/蓝绿色(E2、E3)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	I _F (mA)	9.0 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 2200	2200 to 3600	3600 to 5600
Mini-mold	1006	0.2	5						SMLP14ECNW									
		0.36							SMLN3EC8T									
	1608	0.55	5						SMLD12EN1W									
									SMLD12E2N1W									
		1.24							SMLD12E3N1W									
Reflector	20125	0.8	5						CSL1001ET									
									☆SMLM22EN1T (C)									
	3020	1.3	20						SMLMN2ECT (C)			SML012ENT						
PLCC2	3528	1.9	20												SMLZ24E2N3T			
Side View (mold)	16115	0.55	5			SMLA12ENT									SMLZN4EGT (A)*			
Lens	3216	1.85															SMLS14ENT	
	1608	1.24	20								CSL0901ET							
														CSL0902ET				

蓝色(B)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	I _F (mA)	0.9 to 1.4	1.4 to 2.2	2.2 to 3.6	3.6 to 5.6	5.6 to 9.0	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400
Mini-mold	1006	0.2	5							SMLP14BCNW										
		0.36								SMLN3BC8T										
	1608	0.55	5							SMLD12BN1W										
		1.24						CSL1001BT												
Reflector	1608	0.55	5														CSL1103BAT (C)			
																			CSL1103SB11W (C)	
	20125	0.8	5							SMLM22BN1T (C)										
		1.3								SMLMN2BCT (C)										
PLCC2	3528	1.9	20													SML013BNT				
Side View (mold)	16115	0.55	5													SMLZ24BN3T				
Reverse Mount	34125	1.1	20													SMLZN4BGT (A)*				
Lens	3216	1.85	20																SMLS14BNT	
	1608	1.24	20									CSL0901BT								
																	CSL0902BT			

白色(WB)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (cd)	I _F (mA)	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200	2200 to 2800	2800 to 3600	3600 to 7000	7000 to 8500
Mini-mold	1006	0.2	5							SMLP14WBCNIW												
		0.36								SMLN3WBC8W												
	1608	0.55	5							SMLD12WBN1W												
Side View	16115	0.55	5					SMLA12WBN7W														
(Reflector)	2812	0.8	20														CSL0416WBCW					
Reverse Mount	34125	1.1	2		SML811WBCN1W																	
Reflector	20125	0.55	20														CSL1103WBxW					
																	CSL1104WBxW					
		0.8	5						SMLM22WBN1CW1T (C)													
PLCC2	3528	1.9	20						SMLMN2WB1CW (C)													
																	SMLZN4WBGUW (A)*					

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (cd)	I _F (mA)	2.2 to 2.8	2.8 to 3.3	3.3 to 4.0	4.0 to 4.8	4.8 to 5.8	5.8 to 7.0	7.0 to 8.5	8.5 to 10.2	10.2 to 12.3	12.3 to 14.8	14.8 to 19	19 to 21.8	21.8 to 24.5	24.5 to 27.2	27.2 to 29.3	29.3 to 32.6	32.6 to 35.4
Reflector	4520	0.6	90						SMLK18WBJCW												

*另备有半规格产品。

*1 规格书所示光强包含±10%误差。 注：等级标记请参考规格书。

☆：开发中

双色 光强一览表

Package Structure	Package Size (mm)	Height (mm)	I _F (mA)	Luminous Intensity (mcd)	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160
Mini-mold	1010	0.2	20	Red					SML-P24MUW-(R)				
				Yellow Green									
				Blue									
	1315	0.6	5	Red				SML522BUNW					
				Blue									
				Yellow Green					SML-522MUW				
			20	Red					SML-522MU8W				
				Yellow Green						SML-522MD8W			
				Orange									
Reflector	3025	1.3	20	Yellow Green									
				Red									
				Yellow Green									
				Orange									
				Yellow Green									
				Yellow									
	34125	1.1	20	Yellow Green									
				Red									
				Yellow Green									
				Red									
				Yellow Green									
				Red									

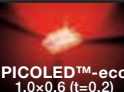
三色 光强一览表

Package Structure	Package Size (mm)	Height (mm)	I _f (mA)	Luminous Intensity (mcd)	Emitting Color	5.6 to 9.0	9.0 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 1800	
Mini-mold	1010	0.2	5	Red															
				Green															
				Blue															
	1510	0.2	5	Red															
				Green															
				Blue															
Reflector	1816	0.5	20	Red															
				Green															
				Blue															
				Red															
				Green															
				Blue															
	3528	0.6		Red															
				Green															
				Blue															
				Red															
				Green															
				Blue															
Side View (Reflector)	29135	1.0	20	Red															
				Green															
				Blue															
				Red															
				Green															
				Blue															
	6922	2.15		Red															
				Green															
				Blue															
				Red															
				Green															
				Blue															

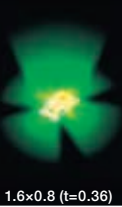
*1 规格书所示光强包含±10%误差。 注：等级标记请参考规格书。

贴片LED

〈PICOLED™ 模具型0402 (1006M)〉

Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)										Automotive Grade AEC-Q101/ AEC-Q102	
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					
									Typ (V)	I _r (mA)	Max (μA)	V ₀ (V)	Typ* (nm)	I _r (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _r (mA)		
	Red	SML-P11VT (R)	50	20	100 ^{*2}	5	-40 to +85	-40 to +100	1.8	1	10	5	626	1	2	4	6	1	—	
		SML-P11UT (R)	50	20	100 ^{*2}	5	-40 to +85	-40 to +100	1.8	1	10	5	621	1	1	3	3	1	—	
	Orange	SML-P11DT (R)	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	1.9	1	10	5	605	1	4	7	16	1	—	
	Yellow	SML-P11YT (R)	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	1.9	1	10	5	586	1	4	8	16	1	—	
	Yellow Green	SML-P11MT (R)	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	1.9	1	10	5	569	1	1	2	4	1	—	
	Red	SML-P12VT (R)	50	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.0	20	10	5	630	20	25	60	100	20	—	
		SML-P12UT (R)	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	620	20	40	85	160	20	—	
		SML-P12U2T (R)	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	615	20	25	70	100	20	—	
	Orange	SML-P12DT (R)	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	605	20	63	100	250	20	—	
	Yellow	SML-P12Y3T (R)	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	596	20	40	90	250	20	—	
SML-P12YT (R)		590											100						160	—
SML-P12WT (R)		585											70						100	—
SML-P12Y2T (R)		580											16						50	100
Yellow Green	SML-P12M2T (R)	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	576	20	10	25	63	20	—		
	SML-P12MT (R)	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	10	25	63	20	—		
Green	SML-P13FT (R)	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	566	20	6	18	40	20	—		
	SML-P13PT (R)	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	560	20	4	10	16	20	—		
	New SMLP14ECNW	34	10	50 ^{*2}	5	-40 to +85	-40 to +100	3.0	5	100	5	527	5	56	110	220	5	—		
	Blue	New SMLP14BCNW	33	10	50 ^{*2}	5	-40 to +85	-40 to +100	2.9	5	100	5	470	5	9	25	56	5	—	
	White	SMLP14WBCN1W	33	10	50 ^{*2}	5	-40 to +85	-40 to +100	2.9	5	100	5	(x, y) (0.30, 0.30)	5	90	180	360	5	—	

〈模具型0603 (1608M)〉

	Red	SML-E12UW	62	25	60 ^{*1}	5	-30 to +85	-40 to +85	2.0	20	10	5	624	20	36	85	280	20	—	
	Orange	SML-E12DW	62	25	60 ^{*1}	5	-30 to +85	-40 to +85	2.0	20	10	5	607	20	56	150	450	20	—	
	Red	SML-E12V8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	630	20	16	40	100	20	—	
		SML-E12U8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	620	20	25	63	160	20	—	
	Orange	SML-E12D8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	605	20	40	100	250	20	—	
	Yellow	SML-E12Y8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	590	20	25	63	160	20	—	
	Yellow Green	SML-E12M8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	10	25	63	20	—	
	Green	SML-E12P8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	560	20	3	6	16	20	—	
		New SML-E12EC8T	68	20	100 ^{*2}	5	-40 to +85	-40 to +100	3.0	5	10	5	527	5	56	120	360	5	—	
	Blue	SML-E12BC8T	66	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.9	5	10	5	470	5	14	40	90	5	—	
	White	SML-E12WBC8W	33	10	50 ^{*2}	5	-40 to +85	-40 to +100	2.9	5	10	5	(x, y) (0.30, 0.30)	5	56	120	220	5	—	
		Yellow	SML-D11YW	67	25	100 ^{*2}	5	-40 to +85	-40 to +100	1.9	2	10	5	588	2	2	4	6	2	—
			SML-D12W8W (A)	52	20	100 ^{*2}	12	-40 to +100	-40 to +100	2.0	2	10	5	630	20	25	40	63	20	—
		Red	SML-D12V1W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	620	20	40	63	100	20	—
			SML-D12U1W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	605	20	63	100	160	20	—
Orange		SML-D12D1W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	590	20	63	100	160	20	—	
Yellow		SML-D12Y1W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	16	30	63	20	—	
Yellow Green		SML-D12M1W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	10	25	63	20	—	
Red		SML-D12L8W	50	20	100 ^{*5}	5	-40 to +85	-40 to +100	2.0	20	10	5	635	20	10	16	40	20	—	
		SML-D12V8W	54		630				20				16	40	100	20	YES			
		SML-D12U8W	54		620				20				25	63	160	20	YES			
Orange		SML-D12D8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	605	20	40	100	250	20	YES	
Yellow		SML-D12Y8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	590	20	25	63	160	20	YES	
		SML-D12Y3W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	581	20	16	40	100	20	—	
Yellow Green		SML-D12M8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	10	25	63	20	YES	
		SML-D12FW	67	25	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	565	20	14	18	28	20	—	
Green	SML-D12P8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	560	20	3	6	16	20	YES		
	SMLD12EN1W	70		527								5	56	140	220	5	YES			
Blue	SMLD12E2N1W	66	20	100 ^{*2}	5	-40 to +100	-40 to +100	2.9	5	10	5	505	5	56	120	140	5	YES		
Green	SMLD12E3N1W	66	20	100 ^{*2}	5	-40 to +100	-40 to +100	2.9	5	10	5	496	5	56	85	140	5	YES		
Blue	SMLD12BN1W	66	20	100 ^{*2}	5	-40 to +100	-40 to +100	2.9	5	10	5	470	5	14	40	56	5	YES		
White	SMLD12WBN1W	66	20	100 ^{*2}	5	-40 to +100	-40 to +100	2.9	5	10	5	(x, y) (0.295, 0.280)	5	56	120	220	5	YES		
	Red	SML-D13VW (A)	72	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.0	20	10	5	630	20	36	55	90	20	YES	
		SML-D13UW (A)	72	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.0	20	10	5	620	20	56	85	140	20	YES	
	Orange	SML-D13DW (A)	72	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.0	20	10	5	605	20	71	120	180	20	YES	
	Yellow	SML-D13WW (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	587	20	71	110	180	20	YES	
	Yellow Green	SML-D13MW (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	571	20	28	45	71	20	YES	
	Red	SML-D13U8W	52	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	620	20	40	70	160	20	—	
		SML-D13Y8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	590	20	63	100	160	20	—	
	Yellow	SML-D13Y2W	78	30	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	581	20	40	80	100	20	—	
	Yellow Green	SML-D13M8W	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	16	30	63	20	—	
	Green	SML-D13FW	81	30	100 ^{*2}	5	-40 to +85	-40 to +100	2.1	20	10	5	565	20	18	22	36	20	YES	
	Red	SML-D14VW (A)	72	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.0	20	10	5	630	20	71	100	180	20	YES	
		SML-D14U2W (A)	75		615								20	90	160	224	20	YES		
	Orange	SML-D14DW (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.0	20	10	5	605	20	112	200	280	20	YES	
	Yellow	SML-D14YW (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	590	20	112	200	280	20	YES	
		SML-D14WW (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	587	20	112	180	280	20	YES	
Yellow Green	SML-D14MW (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	571	20	36	60	90	20	YES		
Red	SML-D15VW											630		71	90	112		YES		
	SML-D15UW	84	35	100 ^{*2}	5	-40 to +100	-40 to +100	2.0	20	10	5	620	20	90	112	140	20	YES		
	SML-D15U2W											615		112	140	180		YES		
Orange	SML-D15DW	84	35	100 ^{*2}	5	-40 to +100	-40 to +100	2.0	20	10	5	605	20	180	224	280	20	YES		
Yellow	SML-D15YW	87	35	100 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	590	20	180	224	280	20	YES		
Yellow Green	SML-D15MW	87	35	100 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	571	20	56	71	90	20	YES		

〈模具型0603(1608M)〉

Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)										Automotive Grade AEC-Q101/ AEC-Q102	
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Dominant Wavelength λ _D		Luminous Intensity I _v					
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)		
 1.6×0.8 (t=1.24)	Green	CSL1001ET (C)	35	10	50*2	5	-40 to +100	-40 to +100	3.0	5	10	5	527	5	90	140	224	5	YES	
	Blue	CSL1001BT (C)	33	10	50*2	5	-40 to +100	-40 to +100	2.8	1	10	5	470	1	4	6	9	1	YES	

〈模具型0805(20125M)〉

Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)										Automotive Grade AEC-Q101/ AEC-Q102
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _F		Reverse Current I _R		Dominant Wavelength λ _D / Chromaticity Coordinates (x, y)	Luminous Intensity I _v					
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)		Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	
 2.0×1.25 (t=0.8)	Red	SML-H12V8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	630	20	16	25	63	20	YES
		SML-H12U8T											620		25	40	100		YES
	Orange	SML-H12D8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	605	20	40	63	160	20	YES
	Yellow	SML-H12Y8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	590	20	40	63	160	20	YES
	Yellow Green	SML-H12M8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	10	25	40	20	YES
	Green	SML-H12P8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	560	20	3	4	10	20	YES

〈折射型0603(1608M)〉

 1.6×0.8 (t=0.55)	Green	New CSL1101PB11W (C)	68	20	100 ^{*2}	5	-40 to +110	-40 to +110	2.9	5	10	5	(x, y) (0.370, 0.590)	5	22	32	45	5	YES
	Blue	New CSL1103BAT (C)	152	40	100 ^{*2}	12	-40 to +110	-40 to +110	3.2	20	10	5	470	20	220	400	560	20	YES
		New CSL1103SB11W (C)											(x, y) (0.183, 0.154)		780	1,100	1,400		YES
	White	New CSL1103WBAW	152						3.2				(x, y) (0.282, 0.249)	20	900	1,500	2,200	20	YES
		New CSL1103WBBW											(x, y) (0.261, 0.261)						YES
		New CSL1103WBCW											(x, y) (0.303, 0.294)						YES
		New CSL1103WBDW											(x, y) (0.284, 0.303)						YES
		New CSL1104WBAW	144						2.9				(x, y) (0.282, 0.249)	20	1,400	2,000	2,800	20	YES
		New CSL1104WBBW											(x, y) (0.261, 0.261)						YES
		New CSL1104WBCW											(x, y) (0.303, 0.294)						YES
		New CSL1104WBDW											(x, y) (0.284, 0.303)						YES

〈折射型0805(20125M)〉

 2.0×1.25 (t=0.8)	Red	SML-M13VT	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	2	20	10	5	630	20	40	75	100	20	—
		SML-M13UT											620		63	120	160		—
	Orange	SML-M13DT	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	2	20	10	5	605	20	100	160	250	20	—
	Yellow	SML-M13YT	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	2	20	10	5	590	20	100	160	250	20	—
	Yellow Green	SML-M13MT	81	30	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	25	45	100	20	—
	Green	SML-M13PT	81	30	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	560	20	6	16	25	20	—
		SMLMN2ECT (C)	70	20															
	Blue	SMLMN2BCT (C)	68	20	100 ^{*2}	12	-40 to +100	-40 to +100	2.9	5	10	12	470	5	14	36	90	5	YES
	White	SMLMN2WB1CW (C)	68	20	100 ^{*2}	12	-40 to +100	-40 to +100	2.9	5	10	12	(x, y) (0.30, 0.28)	5	56	140	220	5	YES

〈折射型(3020M)〉

 3.0×2.0 (t=1.3)	Red	SML-010VT	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	2	20	10	4	650 ^{*6}	20	2	6	18	20	—
	Orange	SML-010DT	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	2	20	100	4	610 ^{*6}	20	4	10	28	20	—
	Yellow	SML-010YT	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	2.1	20	100	4	585 ^{*6}	20	2	6	18	20	—
	Yellow Green	SML-010MT	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	2.2	20	100	4	570 ^{*6}	20	6	25	45	20	—
	Green	SML-010PT	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	2.2	20	100	4	555 ^{*6}	20	2	6	18	20	—
	Red	SML-011UT	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2	20	10	5	630 ^{*6}	20	22	63	180	20	—
	Orange	SML-011DT	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2	20	10	5	611 ^{*6}	20	22	63	180	20	—
	Yellow	SML-011YT	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2	20	10	5	590 ^{*6}	20	22	63	180	20	—
	Red	SML-011VT (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2	10	10	5	639 ^{*6}	10	14	28	56	10	—
	Orange	SML-011DT (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2	10	10	5	611 ^{*6}	10	22	45	90	10	—
	Yellow	SML-011YT (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2	10	10	5	590 ^{*6}	10	11	22	45	10	—
	Red	SML-012VT (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2	20	10	5	630	20	36	71	140	20	—
		SML-012V8T	54	20			2.2		25				63		160	—			
		SML-013UT	75	30			2		90				220		710	—			
		SML-012U8T	54	20			2.2		40				100		250	—			
		SML-012UT	75	30			2		36				100		280	—			
	Orange	SML-012DT (A)	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	605	20	71	140	280	20	—
		SML-012D8T	75	30			2		606				36		100	280	—		
	Yellow	SML-012YT (A)	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	2	20	10	5	587	20	56	112	224	20	—
		SML-012Y8T	54	20			2.2		40				100		250	—			
		SML-012YT	75	30			2		36				100		280	—			
		SML-013YT	75	30			2.1		100				250		630	—			
		SML-012WT (A)					2		140				280		450	—			
	Yellow Green	SML-012M8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	16	40	100	20	—
	Green	SML-012PT (A)	62	25	60 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	560	20	9	18	36	20	—
		SML-012P8T	54	20	100 ^{*2}		-40 to +85		2.2					3		25		—	
		New SML012ENT	84	20	100 ^{*2}	5	-30 to +85	-40 to +100	3.3	20	100	5	525	20	140	360	—	20	—
Blue	New SML013BNT	78	20	100 ^{*2}	5	-30 to +85	-40 to +100	3.2	20	100	5	470	20	90	250	560	20	—	

*1 Duty 1/5, 200Hz *2 Duty 1/10, 1kHz *3 Duty ≤ 1/20, 1ms *4 Duty ≤ 1/5, 1kHz *5 Duty 1/10, pulse width 10ms Max *6 峰值波长

*关于白色, 用色度坐标(x, y)标记。

注: 零件号末尾处的 "C" 表示车载级产品。详情请联系销售代表。

(): 参考值

贴片LED

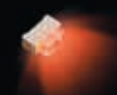
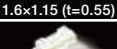
〈折射型PLCC(3528M)〉

Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)										Automotive Grade AEC-Q101/ AEC-Q102		
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R	Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v							
									Typ (V)	I _F (mA)		Max (μA)	V _R (V)	Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)		I _F (mA)	
	Red	SML-Z14V4T	189	70	200*2	12	-40 to 100	-40 to 100	2	50	10	12	630	50	140	280	560	50	—		
		SML-Z14VT (A)	168						1.9	20				20	56	112	180	20	YES		
		SML-Z14U4T	189						2	50				50	280	560	1,120	50	—		
		SML-Z14UT (A)	168						1.9	20				20	112	224	355	20	YES		
	Orange	SML-Z14D4T	189	70	200*2	12	-40 to 100	-40 to 100	2	50	10	12	605	50	355	710	1,400	50	—		
		SML-Z14DT (A)	168						1.9	20				20	140	280	450	20	YES		
	Yellow	SML-Z14Y4T	189	70	200*2	12	-40 to 100	-40 to 100	2.1	50	10	12	590	50	355	710	1,400	50	—		
		SML-Z14YT (A)	175						2	20				20	140	280	450	20	YES		
	Yellow Green	SML-Z14M4T	189	70	200*2	12	-40 to 100	-40 to 100	2.1	50	10	12	572	50	112	224	450	50	—		
		SML-Z14MT (A)	175						2	20				20	45	90	140	20	YES		
	Green	SML-Z14F4T	189	70	200*2	12	-40 to 100	-40 to 100	2.1	50	10	12	565	50	56	120	180	50	—		
		SML-Z14FT (A)	175						2	20				20	45	71	20	YES			
		SML-Z14P4T	189						2.1	50				50	22	56	90	50	—		
		SML-Z14PT (A)	175						2	20				20	11	22	36	20	YES		
		New SMLZN4EGT (A)	120	30	100*2	5			3.4	20				5	528	20	710	1,100	1,800	20	YES
		SMLZN4BGT (A)	114	30	100*2	0.9	-40 to 85	-40 to 100	3.3	20				—	—	470	20	140	300	450	20
White	SMLZN4WBGUW (A)	114	30	100*2	0.9	-40 to 85	-40 to 100	3.3	20	—			(x, y) (0.30, 0.28)	20	1,800	2,400	3,600	20	YES		
Blue Green	SMLZ24E2N3T (C)	152	40	100*2	—	-40 to 100	-40 to 100	3.2	20	—			—	505	20	900	1,140	1,800	20	YES	
Blue	SMLZ24BN3T (C)	114	30	100*2	0.9	-40 to 100	-40 to 100	3.3	20	—			—	470	20	220	300	450	20	YES	

〈折射型(4520M)〉

Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)												Automotive Grade AEC-Q101/ AEC-Q102
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{Op} (°C)	Storage Temperature T _{Stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Chromaticity Coordinates*	Luminous Intensity			Luminous Flux Φ _v				
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)		(x, y)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (lm)	
 4.5×2.0 (t=0.6)	White	New SMLK18WBNCW	675	150	230*5	5	-40 to +100	-40 to +100	3.9	90	10	5	(0.30, 0.28)	90	4,800	5,900	8,500	90	21	90	—

〈侧视型〉

Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)										Automotive Grade AEC-Q101/ AEC-Q102
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)			Luminous Intensity I _v			
	Red	SML-A12V8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	630	20	16	40	100	20	—
		SML-A12U8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	620	25	63	160	20	—	
	Orange	SML-A12D8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	605	20	40	100	250	20	—
	Yellow	SML-A12Y8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	590	20	25	63	160	20	—
	Yellow Green	SML-A12M8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	572	20	10	25	63	20	—
	Green	SML-A12P8T	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.2	20	10	5	560	20	3	6	16	20	—
	Red	SML-A12UT (J)	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	2.0	20	10	5	624	20	36	100	280	20	—
	Orange	SML-A12DT (J)	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	2.0	20	10	5	606	20	36	100	280	20	—
	Yellow	SML-A12WT (J)	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	2.0	20	10	5	590	20	36	63	180	20	—
	Yellow Green	SML-A12MT (J)	65	25	100 ^{*2}	5	-30 to +85	-40 to +85	2.1	20	100	5	570	20	14	40	110	20	—
	Yellow	SML-A15YT	87	35	100 ^{*2}	5	-40 to +100	-40 to +100	2.1	20	10	5	590	20	180	—	280	20	—
	Green	New SMLA12ENT	68	20	100 ^{*2}	5	-40 to +85	-40 to +100	3.0	5	100	5	527	5	22	56	140	5	—
	Blue	New SMLA12BN8T	66	20	100 ^{*2}	5	-40 to +85	-40 to +100	2.9	5	10	5	470	5	22	36	56	5	—
	White	New SMLA12WBN7W	33	10	50 ^{*2}	5	-40 to +85	-40 to +100	2.9	5	10	5	(x, y) (0.30, 0.30)	5	22	56	140	5	—
	White	New CSL0416WBCW	117	30	100 ^{*2}	5	-40 to +85	-40 to +100	3.2	20	50	5	(x, y) (0.30, 0.28)	20	1,400	2,200	3,600	20	—

〈可背面贴装型〉

 Mold type 3.4x1.25 (t=1.1)	Red	SML-811VT (A)	62	25	100*2	5	-40 to +85	-40 to +100	2.0	10	100	5	630	10	11	22	45	10	YES
		SML-811UT (A)	62	25	100*2	5	-40 to +85	-40 to +100	2.0	10	100	5	620	10	11	22	45	10	YES
	Orange	SML-811DT (A)	62	25	100*2	5	-40 to +85	-40 to +100	2.0	10	100	5	605	10	11	22	45	10	YES
	Yellow	SML-811WT (A)	62	25	100*2	5	-40 to +85	-40 to +100	2.0	10	100	5	590	10	14	28	56	10	YES
	Yellow Green	SML-812MT	65	25	60*1	4	-30 to +85	-40 to +85	2.1	20	100	4	571	20	14	40	110	20	—
	Blue	New SML813BNT	76	20	100*2	5	-40 to +85	-40 to +85	3.2	20	100	5	470	20	90	185	360	20	—
	White	New SML811WBCN1W	35	10	50*2	5	-40 to +85	-40 to +100	2.8	2	10	5	(x, y) (0.272, 0.279)	2	9	22	45	2	YES
	Yellow Green	SML-822MV8W	54	20	100*2	5	-40 to +85	-40 to +100	2.2	20	100	5	572	20	16	25	40	20	—
	Red	SML-822MV8W	54	20	100*2	5	-40 to +85	-40 to +100	2.2	20	100	5	630	20	16	30	63	20	—
	Yellow Green	SML-825MVW	80	30	100*2	5	-40 to +85	-40 to +100	2.1	20	100	5	572	20	40	63	100	20	—
 2 Color type 3.4x1.25 (t=1.1)	Red	SML-825MVW	80	30	100*2	5	-40 to +85	-40 to +100	2.0	20	100	5	630	20	40	63	100	20	—

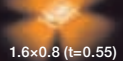
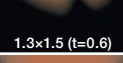
*1 Duty 1/5, 200Hz *2 Duty 1/10, 1kHz *3 Duty ≤1/20, 1ms *4 Duty ≤1/5, 1kHz *5 Duty 1/10, pulse width 10ms Max
*关于白色, 用色度坐标(x, y)标记。

() : 参考值

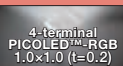
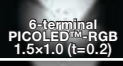
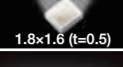
〈带镜头的表面贴装型〉

Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)												Automotive Grade AEC-Q101/ AEC-Q102	
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F				Reverse Current I _R		Dominant Wavelength λ _D		Luminous Intensity I _v					
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	Typ (μA)	V _R (V)	Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)		
	Red	CSL0901VT	62.5	25	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	630	20	112	180	355	20	YES			
		CSL0901UT											620		140	280	450		YES			
	Orange	CSL0901DT	62.5	25	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	605	20	224	400	710	20	YES			
	Yellow	CSL0901YT	62.5	25	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	590	20		320	560	20	YES			
		CSL0901WT											587		280				YES			
	Yellow Green	CSL0901MT	62.5	25	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	571	20	56	100	180	20	YES			
	Green	CSL0901PT	62.5	25	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	560	20	14	30	45	20	YES			
		CSL0901ET	70	20		5			3	5			527	5	220	360	560	5	YES			
	Blue	CSL0901BT	68	20	100*2	5	-40 to +100	-40 to +100	2.9	5	10	5	470	5	36	56	90	5	YES			
	Red	CSL0902VT											630		140	250	450		YES			
		CSL0902UT	87	35	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	620	20	180	350	560	20	YES			
	Orange	CSL0902DT	87	35	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	605	20	355	560	1,120	20	YES			
	Yellow	CSL0902YT	87	35	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	590	20	280	500	900	20	YES			
	Yellow Green	CSL0902MT	87	35	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	571	20	90	150	280	20	YES			
	Green	CSL0902ET	95	25	100*2	5	-40 to +100	-40 to +100	3.4	20	10	5	527	20	710	1,100	1,800	20	YES			
	Blue	CSL0902BT	95	25	100*2	5	-40 to +100	-40 to +100	3.3	20	10	5	470	20	220	360	560	20	YES			
	Red	CSL0903VT											(630)		(355)	(700)	(900)		YES			
		CSL0903UT	87	35	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	(620)	20	(560)	(1,000)	(1,400)	20	YES			
	Orange	CSL0903DT	87	35	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	(605)	20	(710)	(1,200)	(1,800)	20	YES			
	Yellow	CSL0903YT	87	35	100*2	12	-40 to +100	-40 to +100	2.1	20	10	12	(590)	20	(560)	(800)	(1,400)	20	YES			
	Red	SML-S13VT	75	30	100*2	5	-40 to +85	-40 to +100	1.9	20	10	5	630	20	160	450	630	20	—			
		SML-S13UT											620		400	700	1,600		—			
	Orange	SML-S13DT	75	30	100*2	5	-40 to +85	-40 to +100	1.9	20	10	5	605	20	630	1,400	2,500	20	—			
	Yellow	SML-S13YT	78	30	100*2	5	-40 to +85	-40 to +100	2.0	20	10	5	590	20	630	1,400	2,500	20	—			
	Yellow Green	SML-S13MT	78	30	100*2	5	-40 to +85	-40 to +100	2.0	20	10	5	572	20	160	400	630	20	—			
	Green	SML-S13PT	78	30	100*2	5	-40 to +85	-40 to +100	2.0	20	10	5	560	20	63	160	400	20	—			
		SMLS14ENT	117	30					3.3	20			527		1,800	3,000	4,500		—			
	Blue	SMLS14BNT	117	30	100*2	5	-40 to +85	-40 to +100	3.2	20	10	5	470	20	450	800	1,400	20	—			
		Red	CSL0701UT	120	50	150*2	5	-40 to +85	-40 to +100	2.1	20	10	5	624	20	9,000	18,000	25,000	20	—		
		Orange	CSL0701DT	120	50	150*2	5	-40 to +85	-40 to +100	2.1	20	10	5	605	20	20,000	35,000	50,000	20	—		

〈双色型〉

Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)											Automotive Grade AEC-Q101/ AEC-Q102	
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Dominant Wavelength λ _D		Luminous Intensity I _v						
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)			
 PICOLED™-Duo 1.0x1.0 (t=0.2)	Yellow Green	SML-P24MUW (R)	54	20	100*2	5	-40 to +85	-40 to +100	2.2	20	10	5		572	20	10	21	40	20	—	
	Red		52	20	100*2	5	-40 to +85	-40 to +100	2.1	20	10	5		620	20	25	52	100	20	—	
 1.6x0.8 (t=0.55)	Yellow Green	SML-D22MUW	67	25	100*2	5	-40 to +105	-40 to +110	2.0	5	10	5		570	5	6	10	16	5	—	
	Red		65	25	100*2	5	-40 to +105	-40 to +110	1.9	5	10	5		620	5	10	16	25	5	—	
	Yellow	SML-D22YVW	67	25	100*2	5	-40 to +105	-40 to +110	2.0	5	10	5		588	5	16	25	40	5	—	
	Red		65	25	100*2	5	-40 to +105	-40 to +110	1.9	5	10	5		629	5	10	16	25	5	—	
 1.3x1.5 (t=0.6)	Blue	New SML522BUNW	66	20	60*2	5	-40 to +85	-40 to +100	2.9	5	10	5		470	5	9	22	36	5	—	
	Red		50	20	60*2	5	-40 to +85	-40 to +100	1.9	5	10	5		624	5	10	21	40	5	—	
	Yellow Green	SML-522MUW	52	20	60*2	4	-30 to +85	-40 to +85	2.1	20	100	4		570	20	14	40	71	20	—	
	Red		50	20	60*2	4	-30 to +85	-40 to +85	1.9	20	100	4		630	20	22	63	110	20	—	
	Yellow Green	SML-522MU8W	54	20	100*2	4	-40 to +85	-40 to +100	2.2	20	100	4		572	20	16	40	63	20	—	
	Red		54	20	100*2	4	-40 to +85	-40 to +100	2.2	20	100	4		620	20	25	63	100	20	—	
	Yellow Green	SML-522MD8W	54	20	100*2	4	-40 to +85	-40 to +100	2.2	20	100	4		572	20	10	25	40	20	—	
	Orange		54	20	100*2	4	-40 to +85	-40 to +100	2.2	20	100	4		605	20	40	100	160	20	—	
	Yellow Green	SML-522MY8W	54	20	100*2	4	-40 to +85	-40 to +100	2.2	20	100	4		572	20	16	40	63	20	—	
	Yellow		54	20	100*2	4	-40 to +85	-40 to +100	2.2	20	100	4		590	20	40	63	160	20	—	
	 3.0x2.5 (t=1.3)	Yellow Green	SML-020MDT	60	25	60*1	4	-30 to +85	-40 to +85	2.2	20	100	4		570*10	20	9	20	45	20	—
		Orange		60	25	60*1	4	-30 to +85	-40 to +85	2	20	100	4		610*10	20	6	10	18	20	—
Yellow Green		SML-020MVT	60	25	60*1	4	-30 to +85	-40 to +85	2.2	20	100	4		570*10	20	9	20	45	20	—	
Red			60	25	60*1	4	-30 to +85	-40 to +85	2	20	100	4		650*10	20	4	6	11	20	—	
Yellow Green		SML-020MYT	60	25	60*1	4	-30 to +85	-40 to +85	2.2	20	100	4		570*10	20	9	21	45	20	—	
Yellow			60	25	60*1	4	-30 to +85	-40 to +85	2.1	20	100	4		585*10	20	6	10	18	20	—	

〈3色型〉

	Red	SMLP34RGBN1W	35	10	50 ^{*3}	5	-40 to +85	-40 to +100	2.1	5	10	5	624	5	36	80	140	5	—
	Green		35	10	50 ^{*3}	5	-40 to +85	-40 to +100	3.1	5	10	5	527	5	140	220	360	5	
	Blue		35	10	50 ^{*3}	5	-40 to +85	-40 to +100	3	5	10	5	470	5	36	60	140	5	
	Red	New SMLP36RGBN1W	35	10	50 ^{*3}	5	-40 to +85	-40 to +100	2.1	5	10	5	624	5	36	80	140	5	—
	Green		35	10	50 ^{*3}	5	-40 to +85	-40 to +100	3.1	5	10	5	527	5	140	220	360	5	
	Blue		35	10	50 ^{*3}	5	-40 to +85	-40 to +100	3.0	5	10	5	470	5	36	60	140	5	
	Red	MSL0402RGBU ^{*9}	180 ^{*9}	30	100	5	-40 to +85	-40 to +100	2.1	20	10	5	624	20	220	400	560	20	—
	Green		180 ^{*9}	30	100	5	-40 to +85	-40 to +100	3.5	20	100	5	527	20	360	550	900	20	
	Blue		180 ^{*9}	30	100	5	-40 to +85	-40 to +100	3.3	20	100	5	470	20	90	180	360	20	
	Red	SMLVN6RGB1U ^{*9}	400 ^{*9}	50	100	5	-40 to +85	-40 to +100	2.1	20	10	5	624	20	450	700	1,100	20	YES
	Green		400 ^{*9}	40	100	—	-40 to +85	-40 to +100	3.3	20	—	—	527	20	710	1,200	1,800	20	
	Blue		400 ^{*9}	40	100	—	-40 to +85	-40 to +100	3.3	20	—	—	470	20	220	400	560	20	
	Red	SMLVN6RGB1W ^{*8}	400 ^{*9}	50	100	5	-40 to +85	-40 to +100	2.1	20	10	5	624	20	450	700	1,100	20	—
	Green		400 ^{*9}	40	100	—	-40 to +85	-40 to +100	3.3	20	—	—	527	20	710	1,200	1,800	20	
	Blue		400 ^{*9}	40	100	—	-40 to +85	-40 to +100	3.3	20	—	—	470	20	220	400	560	20	
	Red	SMLVN6RGB7W	180 ^{*9}	30	100	5	-40 to +85	-40 to +100	2.1	20	10	5	624	20	280	500	900	20	—
	Green		180 ^{*9}	30	100	—	-40 to +85	-40 to +100	3.5	20	—	—	527	20	560	1,000	1,800	20	
	Blue		180 ^{*9}	30	100	—	-40 to +85	-40 to +100	3.3	20	—	—	470	20	140	300	560	20	

贴片LED

〈3色型〉																			
Package (mm)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)										
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _F (V)	Reverse Current I _R (μA)	Dominant Wavelength λ _D (nm)	Luminous Intensity I _v (mcd)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Automotive Grade AEC-Q101/AEC-Q102		
	Red	MSL0104RGBU*9	400*5	50	100	5	-40 to +85	-40 to +100	2.1	20	10	5	624	20	450	700	1,100	20	
	Green		400*5	40	100	—	-40 to +85	-40 to +100	3.3	20	—	—	527	20	710	1,200	1,800	20	—
	Blue		400*5	40	100	—	-40 to +85	-40 to +100	3.2	20	—	—	470	20	220	400	560	20	
	Red	MSL0104RGBW*8	400*5	50	100	5	-40 to +85	-40 to +100	2.1	20	10	5	624	20	450	700	1,100	20	
	Green		400*5	40	100	—	-40 to +85	-40 to +100	3.3	20	—	—	527	20	710	1,200	1,800	20	—
	Blue		400*5	40	100	—	-40 to +85	-40 to +100	3.2	20	—	—	470	20	220	400	560	20	
	Red	MSL0601RGBU	300*5	40	100	5	-40 to +85	-40 to +100	2.1	20	10	5	624	20	600	700	830	20	
	Green		300*5	30	100	5	-40 to +85	-40 to +100	3.3	20	10	5	527	20	1,100	1,250	1,500	20	—
	Blue		300*5	30	100	5	-40 to +85	-40 to +100	3.2	20	10	5	470	20	290	360	500	20	

*1 Duty1/5, 200Hz *2 Duty1/10, 1kHz *3 Duty≤1/20, 1ms *4 Duty≤1/5, 1kHz *5 Duty1/10, pulse width 10ms Max
 *6 三色亮灯时总允许损耗(DC驱动, 三色同时亮灯时绝对最大额定值为分别亮灯时的30%以下)
 *7 50mmx50mm、基材: FR4: t=1.6mm 铜箔: t=0.07mm
 *8 环氧树脂 *9 硅树脂 *10 峰值波长 *关于白色, 用色度坐标(x, y)标记。

〈表面贴装红外LED〉																			
Package (mm)	Part No.	LED Chip	Emitting Color	Absolute Maximum Rating (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)									
				Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength λ _P		Radiant Intensity			
										Typ (V)	I _F (mA)	Typ (μA)	V _R (V)	Typ (nm)	I _R (mA)	Min (mW/sr)	Typ (mW/sr)	Max (mW/sr)	I _r (mA)
 2.0×1.25 (t=0.8)	SML-M13RT	AlGaAs	Infrared	60	30	100*1	5	-40 to +85	-40 to +100	1.4	20	10	5	870	20	0.5	1.7	3.5	20
 3.2×1.6 (t=1.85)	SML-S13RT	AlGaAs	Infrared	60	30	300*1	5	-40 to +85	-40 to +100	1.4	20	10	5	850	20	1.5	2.5	3.6	20
 Reverse Mount Available 3.2×1.6 (t=1.85)	SML-S15R2T	AlGaAs	Infrared	100	50	300*1	5	-40 to +85	-40 to +100	1.4	20	10	5	870	20	5.6	12	22	20
 3.0×1.5 (t=2.2)	SCM-013RT	AlGaAs	Infrared	57	30	300*1	5	-40 to +85	-40 to +100	1.4	20	10	5	850	20	0.5	2.0	5.0	20
 1.0×0.58 (t=0.53)	New CSL1501RW	AlGaAs	Infrared	100	50	200*1	5	-40 to +85	-40 to +100	(1.4)	20	10	5	(860)	30	(1.2)	(1.6)	(2.2)	20
										(1.5)	30					1.9	(2.5)	3.4	30

〈表面贴装光电晶体管〉																		
Package (mm)	Part No.	LED Chip	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)									
			Collector- Emitter Voltage (V)	Emitter- Collector Voltage (V)	Collector Current (mA)	Collector Power Dissipation (mW)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Light Current		Dark Current		Sensitivity Wavelength	Collector-Emitter Saturation Voltage				
									Min (mA)	Max (mA)	V _{CE} (V) I _e (Lx)	Max (μA) V _{CE} (V)	λ _P Typ (nm)	Min (V)	Typ (V)	Max (V)	I _C (mA) I _e (Lx)	
 2.0×1.25 (t=0.8)	SML-H10TB	Si	32	5	30	80	-30 to +85	-30 to +100	2.0	4.0	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500
 3.0×1.5 (t=2.2)	SCM-014TB	Si	32	5	30	100	-30 to +85	-30 to +100	0.3	3.8	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500
 Reverse Mount Available 3.4×1.25 (t=1.1)	SML-810TB	Si	32	5	30	80	-30 to +85	-30 to +100	2.3	3.8	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500

*1 Duty1/10, 1kHz

() : 参考值

贴片LED

●品名构成说明

〈贴片LED〉

[系列名称:SML或SCM]

■元件发光颜色为蓝(B)、绿(E)、白(WB)、RGB以外颜色时

元件分类代码										特别记载		特别分类代码							
S	M	L	—	D	1	2	V		8		W	T	8	6					
系列名称		封装类型		元件类型		颜色				树脂颜色		引脚形状及卷带规格		光强等级					
SML chip LED series		P1 1.0x0.6 t=0.2mm E1 1.6x0.8 t=0.36mm D1/D2 1.6x0.8 t=0.55mm H1 2.0x1.25 t=0.8mm M1 2.0x1.25 t=0.8mm D1/O2 3.0x2.0 t=1.3mm Z1/Y1 3.5x2.8 t=1.9mm A1 1.6x1.15 t=0.55mm S1/B2 3.4x1.25 t=1.1mm S1 3.2x1.6 t=1.85mm P2 1.0x1.0 t=0.2mm S2 1.5x1.3 t=0.6mm		0 Low current type 1 type 2 High brightness type 3 4 Ultra high brightness type 5 8		L Red V Red U Red U2 Red D Orange Y3 Yellow Y Yellow W Yellow Y2 Yellow M2 Yellow green		M Yellow green F Green P Green MV Yellow green/Red MU Yellow green/Red MD Yellow green/Orange MY Yellow green/Yellow YV Yellow/Red R Infrared T Phototransistor		T Transparent colorless W Milky white B Black		T86 Cathode at sprocket hole side (the top) 〈仅S1系列时〉 T86 Cathode at sprocket hole side (the back) T68 Cathode at sprocket hole side (the top)				请参考规格书			
SCM chip LED series		01 3.0x1.5 t=2.2mm																	

[系列名称:SML或SCM]

■元件发光颜色为蓝(B)、绿(E)、白(WB)、RGB时

系列名称				封装类型	元件类型	颜色	元件分类代码	特别记载	树脂颜色	引脚形状及卷带规格	特别分类代码	光强等级
S M L E N 3 W B C 8									W	1		
SML chip LED series SCM chip LED series				P1 1.0x0.6 t=0.2mm EN 1.6x0.8 t=0.36mm D1 1.6x0.8 t=0.55mm MN/M2 2.0x1.25 t=0.8mm Z2/ZN 3.5x2.8 t=1.9mm A1 1.6x1.15 t=0.55mm S1 3.2x1.6 t=1.85mm S2 1.5x1.3 t=0.6mm P34 1.0x1.0 t=0.2mm P36 1.5x1.0 t=0.2mm VN 3.5x2.8 t=0.6mm 01 3.0x2.0 t=1.3mm K1/K2 4.5x2.0 t=0.6mm	2 High brightness type 3 4 Ultra high brightness type 6 8	E Green E2/E3 Blue Green B Blue PB Green SB Sapphire blue WB White BU Blue/Red RGB Red/Green/Blue	E2/E3 Blue Green B Blue PB Green SB Sapphire blue WB White BU Blue/Red RGB Red/Green/Blue	Resin color T Transparent Colorless W Milky white Resin (in case of VN6 series) U Silicone W Epoxy	T86 Cathode at sprocket hole side (the top) 1 Cathode at sprocket hole side (the top) 3 Cathode at sprocket hole side (the top 2mm pitch) T86 Cathode at sprocket hole side (the back) T68 Cathode at sprocket hole side (the top) *但是, 81系列没有“T68”。	请参考规格书		

[系列名称:CSL]

C	S	L	0	7	0	1	D				T	5							
系列名称		封装类型				颜色				树脂颜色		引脚形状及卷带规格				光强等级			
CSL chip LED series		04 2.8x1.15 t=0.8mm 07 2.9x2.4 t=3.1mm 09 1.6x0.8 t=1.24mm 10 1.6x0.8 t=1.24mm 11 1.6x0.8 t=0.55mm				V Red U Red D Orange Y Yellow W Yellow		M Yellow green P Green E Green B Blue WB White SB Sapphire blue		T Transparent Colorless W Milky white		1 Cathode at sprocket hole side (the top) 5 Cathode at sprocket hole side (big reel)				请参考规格书			

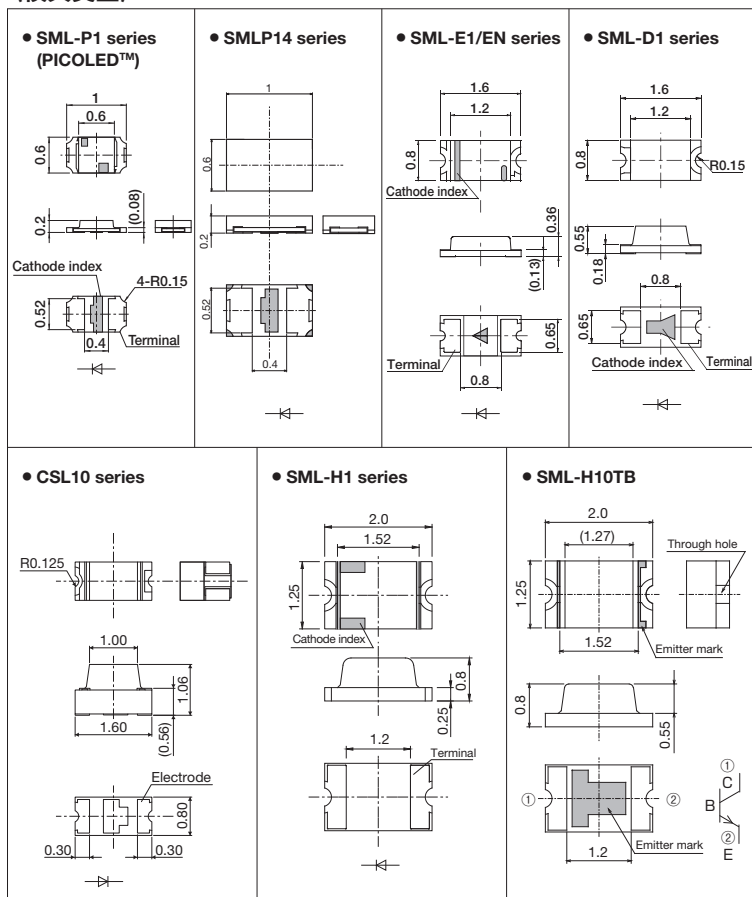
[系列名称:MSL]

系列名称		封装类型	元件分类代码		颜色		特别记载	**MSL0601RGBU* 不适用			特别分类代码		光强等级			
M	S	L	0	1	0	4	R	G	B	U	1					
MSL Multi color series		01 6.9x2.2 t=2.15mm 04 1.8x1.6 t=0.5mm 05 3.5x2.8 t=0.6mm 06 2.9x1.35 t=1.0mm			RGB Red/Green/Blue		U Silicone W Epoxy	1 Cathode at sprocket hole side (the top)					请参考规格书			

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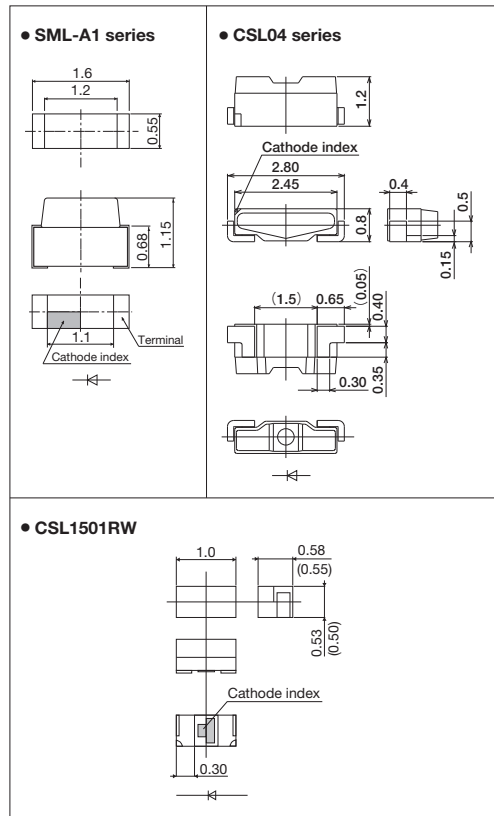
●外形尺寸图 (单位:mm)

(模具类型)

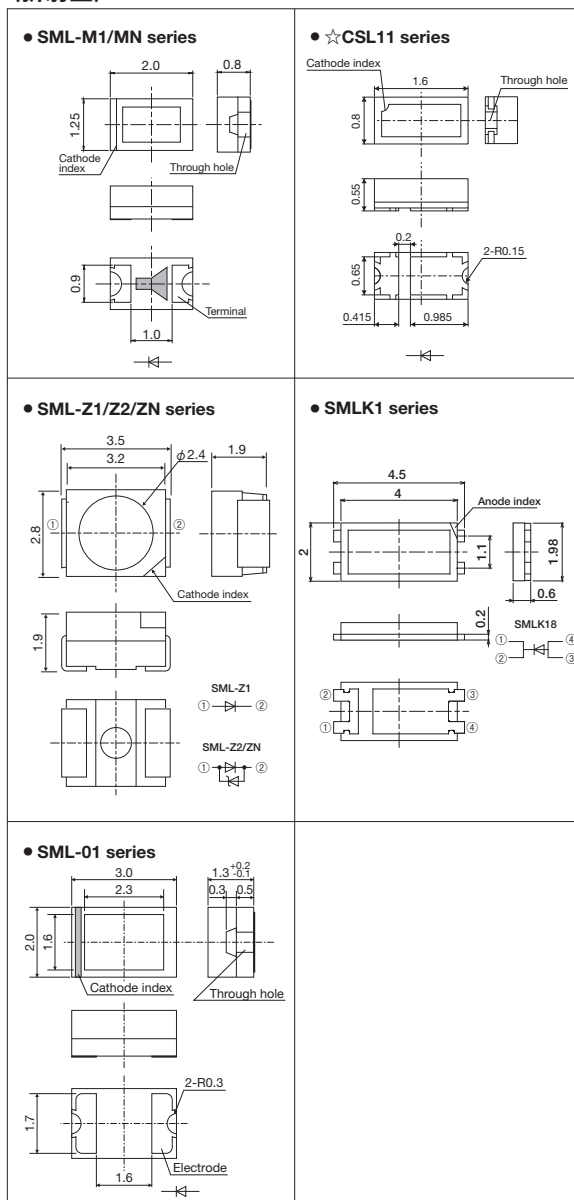


注: PICOLED®是ROHM.Co.,Ltd的商标或注册商标。

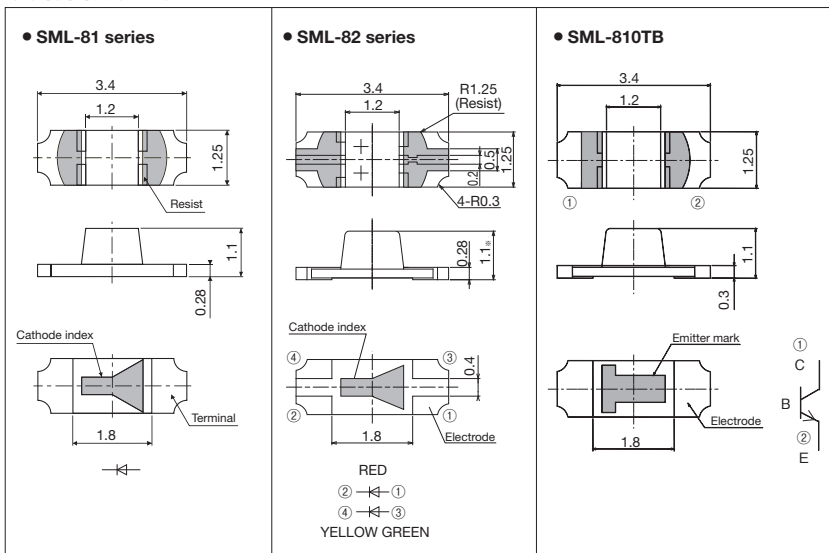
〈侧视图〉



〈折射型〉

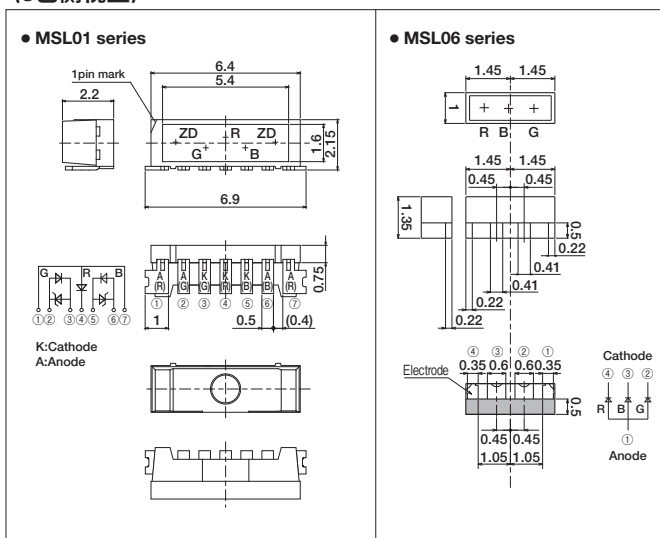
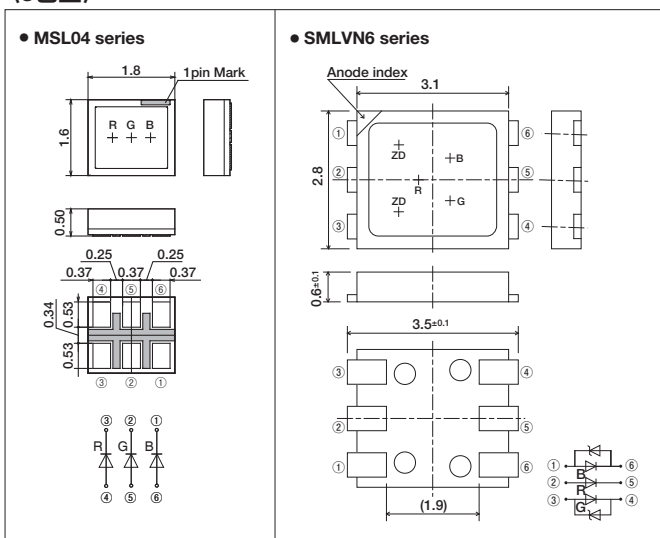
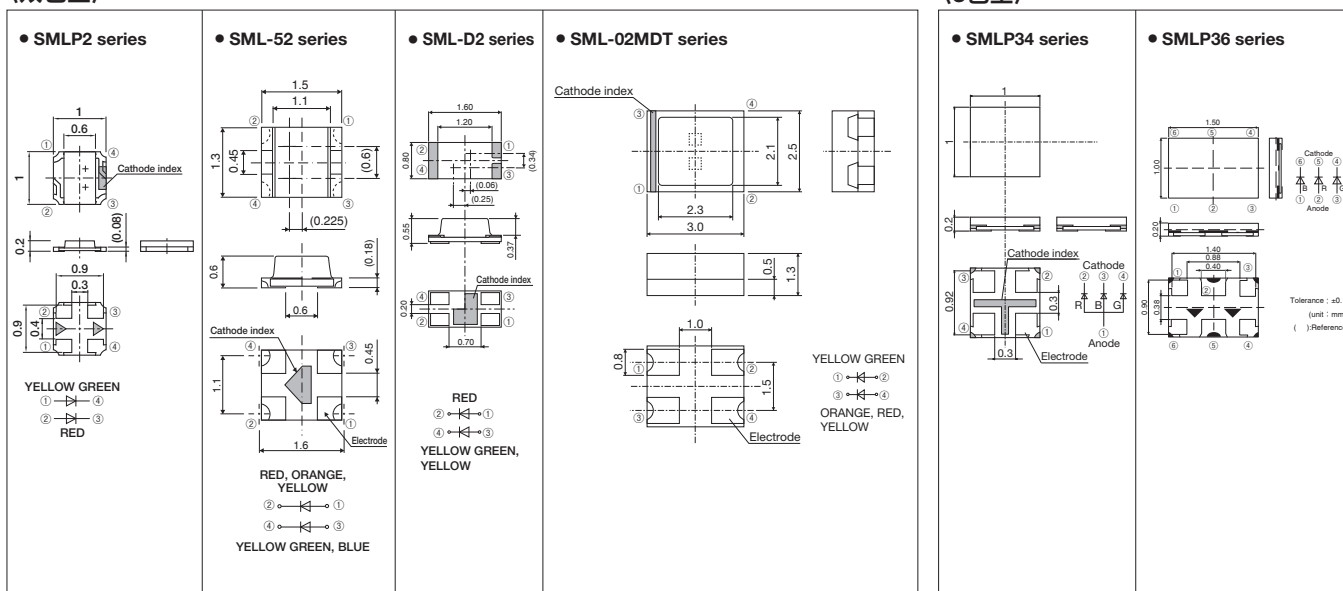
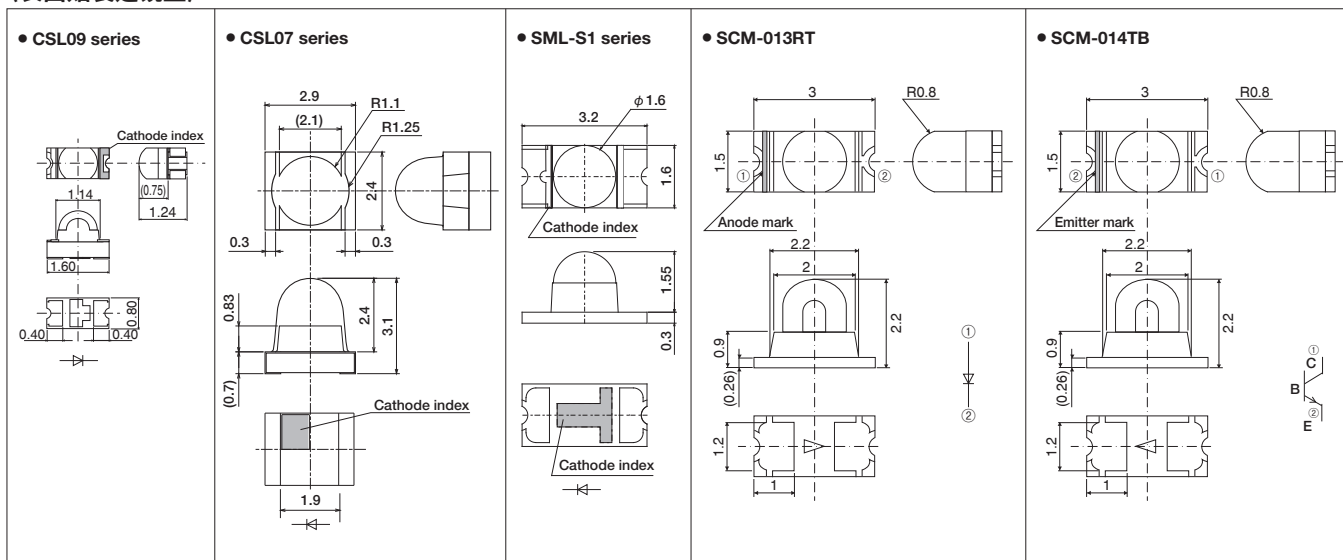


〈可背面安装型〉



*详情请参考规格书。

☆: 开发中



*详情请参考规格书。

插件LED

罗姆提供种类繁多的插件LED, 伴随自动化安装的发展, 以直接安装于基板的LED为首, 提供用于户外显示器等设备的高亮度插件LED系列, 其用途广泛。

<高亮度等级一览表1>

XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

红色(V, U)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Brightness Rank Brightness (mcd) If (mA)	K	L	M	N	P	Q	R	S	T	U	V		
				3.6 to 7.1	5.6 to 11	9 to 18	14 to 28	22 to 45	36 to 71	56 to 110	90 to 180	140 to 280	220 to 450	360 to 710		
φ3 Circular type	40°	Transparent Colored	20									*SLI-343URC				
			10									SLI-343V8RC*1				
		Diffused Colored	20									*SLI-343URC (W)				
			10										*SLI-343URC			
	85°	Transparent Colored	20													
			10										SLI-343V8R*1			
	φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20												
				10												
			Diffused Colored	20												
				10												
35°		Transparent Colored	20													
		Diffused Colored	10													
φ3 Flat disc type	50°	Diffused Colored	10													
	140°	Diffused Colored	20													
φ4 Oval type	10°	Transparent Colorless	20													
			10													
		Diffused Colored	20													
			10													
	20°	Transparent Colorless	20													
			10													
40°	Transparent Colored	20														
		10														
φ5 Circular type	10°	Transparent Colored	20													
			10													
		Diffused Colored	20													
			10													
	20°	Transparent Colorless	20													
			10													
40°	Transparent Colored	20														
		10														

<高亮度等级一览表1>

XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

橙色(D)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Brightness Rank Brightness (mcd) If (mA)	J	K	L	M	N	P	Q	R	S	T	U	V
				2.2 to 4.5	3.6 to 7.1	5.6 to 11	9 to 18	14 to 28	22 to 45	36 to 71	56 to 110	90 to 180	140 to 280	220 to 450	360 to 710
φ3 Circular type	40°	Transparent Colored	20												
			10												
		Diffused Colored	20												
			10												
	85°	Transparent Colored	20												
		Diffused Colored	10												
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20												
			10												
		Diffused Colored	20												
			10												
	35°	Transparent Colored	20												
		Diffused Colored	10												
φ3 Flat disc type	50°	Transparent Colored	20												
			10												
		Diffused Colored	20												
			10												
	140°	Transparent Colored	20												
		Diffused Colored	10												
φ4 Oval type	10°	Transparent Colorless	20												
			10												
		Diffused Colored	20												
			10												
	20°	Transparent Colored	20												
		Diffused Colored	10												
φ5 Circular type	40°	Transparent Colored	20												
			10												
		Diffused Colored	20												
			10												
	20°	Transparent Colored	20												
		Diffused Colored	10												

<高亮度等级一览表1>

XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

黄色(Y)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Brightness Rank Brightness (mcd) If (mA)	J 2.2 to 4.5	K 3.6 to 7.1	L 5.6 to 11	M 9 to 18	N 14 to 28	P 22 to 45	Q 36 to 71	R 56 to 110	S 90 to 180	T 140 to 280	U 220 to 450	V 360 to 710		
φ3 Circular type	40°	Transparent Colored	20									*SLI-343YC					
			10								*SLI-343YC (W)					SLI-343Y8C*1	
		Diffused Colored	20			*SLR-343YC						*SLI-343YY					
			10			*SLR-343YY						*SLI-343YY (W)					SLI-343Y8Y*1
	85°	Transparent Colored	20			*SLR-332YC											
		Diffused Colored	10			*SLR-332YY											
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20								*SLI-325YC (W)						
			10			*SLR-325YC						*SLI-325YY (W)					
		Diffused Colored	20			*SLR-325YY											
			10			*SLR-325YY											
φ3 Flat disc type	35°	Transparent Colored	20			*SLR-322YC											
	50°	Diffused Colored	10			*SLR-322YY											
φ4 Oval type	140°	Diffused Colored	20												SLI-430Y2U*1		
	10°															*SLI-580YT*2	
φ5 Circular type	20°	Transparent Colorless	20													*SLI-570YT*2	
			10												*SLI-560YT*2		
	40°	Transparent Colored	10			*SLR-56YC											
		Diffused Colored			*SLR-56YY												

<高亮度等级一览表1>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
10 to 15	15 to 22	22 to 33	33 to 47	47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU	XV	XW
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500	13500 to 24000	20000 to 36000

绿色(M, P, E)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Brightness Rank Brightness (mcd) I _F (mA)	J	K	L	M	N	P	Q	R	S	T	U	V
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20												
		Diffused Colored	10												
			20												
	85°	Transparent Colorless	20												
		Diffused Colored	10												
			20												
φ3 Flat disc type	35°	Transparent Colored	10												
φ3 Flat disc type	50°	Diffused Colored	10												
φ4 Oval type	140°	Diffused Colored	20												
φ5 Circular type	10°	Transparent Colorless	20												
	20°														
	40°	Diffused Colored	10												
	40°	Transparent Colorless	20												

<高亮度等级一览表2>

XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

蓝色(B)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Brightness Rank Brightness (mcd) I _F (mA)	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
φ3 Circular type	40°	Transparent Colorless	20												
φ4 Oval type	140°	Milky White	20												
φ5 Circular type	10°	Transparent Colorless	20												
	40°														

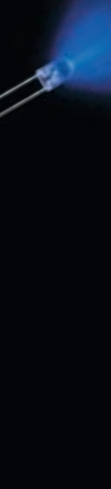
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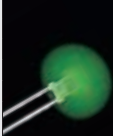
XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
9.0 to 16.5	13.5 to 24	20 to 36	30 to 52	42 to 75	61 to 110	90 to 165	135 to 240	200 to 360	300 to 520	420 to 750	600 to 1100	900 to 1650	1350 to 2400	2000 to 3600	3000 to 5200	4200 to 7500	6100 to 11000	9000 to 16500

白色(WB)光强一览表

	Viewing angle (2θ1/2)	Resin Color	Brightness Rank Brightness (mcd) I _F (mA)	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
φ3 Circular type	40°	Transparent Colorless	20											
φ5 Circular type	40°	Transparent Colorless	20											

插件LED

〈φ3 型〉																							
Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)										Automotive Grade AEC-Q101/ AEC-Q102		
					Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{OP} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v						
												Typ (V)	I _F (mA)	Max (μA)	V _R (V)	Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _R (mA)		
φ3 Circular type		40°	Standard	Red	SLI-343V8RC	54	20	100*2	9	-30 to +85	-40 to +100	2.2	20	10	9	639	20	150	330	(680)	20	—	
					SLI-343V8R													100	220	(470)			
					SLI-343U8RC													150	330	(680)			
				SLI-343U8R	100	220	(470)																
				SLI-343D8C	54	20	100*2	9	-30 to +85	-40 to +100	2.2	20	10	9	611	20	330	680	(1,500)	20	—		
				SLI-343D8U	220	470	(1,000)																
				SLI-343Y8C	54	20	100*2	9	-30 to +85	-40 to +100	2.2	20	10	9	593	20	330	680	(1,500)	20	—		
			SLI-343Y8Y	220	470	(1,000)																	
			SLI-343M8C	54	20	100*2	9	-30 to +85	-40 to +100	2.2	20	10	9	572	20	68	150	(330)	20	—			
			SLI-343M8G	220	470	(1,000)																	
			SLI-343P8C	54	20	100*2	9	-30 to +85	-40 to +100	2.2	20	10	9	560	20	10	22	(47)	20	—			
			SLI-343P8G	220	470	(1,000)																	
			High Brightness	Red	SLI-343URC	125	50	200*2	9	-25 to +85	-30 to +100	1.9	20	100	9	630	20	90	450	(710)	20	—	
					SLI-343UR													350					
		SLI-343DC			125	50	200*2	9	-25 to +85	-30 to +100	1.9	20	100	9	611	20	90	500	(710)	20	—		
		SLI-343DU		350																			
		SLI-343YC		125	50	200*2	9	-25 to +85	-30 to +100	1.9	20	100	9	591	20	90	350	(710)	20	—			
		SLI-343YY		300																			
		SLI-343MC		62	25	100*2	9	-25 to +80	-30 to +100	2.1	20	100	9	572	20	56	200	—	20	—			
		SLI-343MG	180																				
		Blue	New SLR343BN2T	126	30	100*2	5	-20 to +80	-30 to +100	3.2	20	10	5	470	20	470	1,000	(2,200)	20	—			
	White	New SLR343WBN2T	126	30	100*2	5	-20 to +80	-30 to +100	3.2	20	10	5	(x, y) (0.31, 0.31)	20	1,500	3,300	—	20	—				
	40°	Standard	Red	SLR-343VC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	650	10	9	25	(71)	10	—		
				SLR-343VR													6	16	(45)				
			SLR-343DC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	610	10	9	25	(71)	10	—			
			SLR-343DU	6	16	(45)																	
			SLR-343YC	60	20	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	585	10	6	16	(45)	10	—			
			SLR-343YY	4	10	(28)																	
			SLR-343MC	75	25	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	563	10	9	25	(71)	10	—			
		SLR-343MG	6	16	(45)																		
		SLR-343PC	75	25	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	555	10	2	6	(18)	10	—				
		New SLR343EN4T	120	30	100*2	5	-20 to +80		3.2	20	100	5	523	20	900	2,200	—	20	—				
		Blue	New SLR343BN4T	120	30	100*2	5	-20 to +80	-30 to +100	3.2	20	100	5	468	20	300	680	—	20	—			
		Low Current	Red	SLI-343URC (W)	125	50	200*2	9	-25 to +85	-30 to +100	1.9	20	100	9	630	20	36	200	(280)	20	—		
				SLI-343UR (W)													160						
				SLI-343DC (W)													125	50	200*2			9	-25 to +85
	SLI-343DU (W)		250																				
	SLI-343YC (W)		125	50	200*2	9	-25 to +85	-30 to +100	1.9	20	100	9	591	20	36	200	(280)	20	—				
	SLI-343YY (W)		160																				
	85°	Standard	Red	SLR-332VC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	650	10	4	10	(28)	10	—		
				SLR-332VR													6	16	(45)				
			SLR-332DC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	610	10	4	10	(28)	10	—			
			SLR-332DU	4	10	(28)																	
			SLR-332YC	60	20	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	585	10	4	10	(28)	10	—			
			SLR-332YY	2	6	(18)																	
			SLR-332MC	75	25	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	563	10	6	16	(45)	10	—			
			SLR-332MG	6	16	(45)																	
			〈φ5 型〉																				
			φ5 Circular type		10°	High Brightness	Red	SLI-580UT	125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	630	20	2,000	5,000	(11,000)
	Orange	SLI-580DT					125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	611	20	1,350	5,000	(7,500)	20	—
	Yellow	SLI-580YT					125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	591	20	1,350	5,000	(7,500)	20	—
Yellow Green	SLA-580MT	75					25	60*1	4	-25 to +85	-30 to +100	2.3	20	10	4	563	20	200	470	(1,100)	20	—	
Green	New SLA580EN4T	120					30	100*2	5	-20 to +80	-30 to +100	3.2	20	100	5	523	20	6,100	15,000	—	20	—	
Blue	New SLA580BNT	120					30	100*2	5	-20 to +80	-30 to +100	3.3	20	100	5	468	20	1,350	3,300	—	20	—	
	20°	High Brightness		Red	SLI-570UT	125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	630	20	900	3,000	(5,200)	20	—	
					SLI-570UT2T													2,200	4,000	(10,000)			
				Orange	SLI-570DT	125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	611	20	900	3,000	(5,200)	20	—	
				Yellow	SLI-570YT	125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	591	20	610	2,500	(3,600)	20	—	
				SLI-570YT2T	2,200	5,200	(10,000)																
				Yellow Green	SLA-570MT	75	25	60*1	4	-25 to +85	-30 to +100	2.3	20	10	4	563	20	200	470	(1,100)	20	—	
40°	High Brightness	Red		SLI-560UT	125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	630	20	300	1,000	(1,650)	20	—		
		Orange		SLI-560DT	125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	611	20	300	1,000	(1,650)	20	—		
		Yellow		SLI-560YT	125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	591	20	300	1,000	(1,650)	20	—		
		Yellow Green		SLA-560MTS	75	25	60*1	4	-25 to +85	-30 to +100	2.3	20	10	4	563	20	42	100	(240)	20	—		
		Blue		New SLA560BN2T	126	30	100*2	5	-20 to +80	-30 to +100	3.2	20	10	5	470*3	20	1,000	2,200	(4,700)	20	—		
		White		New SLA560WBN2PT	126	30	100*2	5	-20 to +80	-30 to +100	3.2	20	10	5	(x, y) (0.31, 0.31)	20	1,500	3,300	(6,800)	20	—		
	40°	Standard		Green	New SLA560EN4T	120	30	100*2	5	-20 to +80	-30 to +100	3.2	20	100	5	523	20	900	2,200	—	20	—	
				Blue	New SLA560BN4T	120	30	100*2	5	-20 to +80	-30 to +100	3.2	20	100	5	468	20	300	680	—	20	—	
				Red	SLR-56VC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	650	10	9	25	(71)	10	—	
					SLR-56VR													4	10	(28)			
				Orange	SLR-56DC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	610	10	9	25	(71)	10	—	
				SLR-56DU	4													10	(28)				
Yellow	SLR-56YC	60		20	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	585	10	9	25	(71)	10	—				
SLR-56YY	6														16	(45)							
Yellow Green	SLR-56MC	75		25	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	563	10	14	40	(110)	10	—				
SLR-56MG	6														16	(45)							

〈椭圆形〉																						
Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Absolute Maximum Ratings (T _a =25°C)						Electrical and Optical Characteristics (T _a =25°C)										Automotive Grade AEC-Q101/ AEC-Q102	
					Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FM} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{OP} (°C)	Storage Temperature T _{STG} (°C)	Forward Voltage V _F		Reverse Current I _R		Dominant Wavelength λ _D / Chromaticity Coordinates (x,y)		Luminous Intensity I _v					
											Typ (V)	I _F (mA)	Max (μA)	V _R (V)		Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	
Oval type φ4		140°	Red	SLI-430U2R	75	30	100*2	9	-40 to +85	-40 to +100	2.0	20	10	9		620*3	20	220	400	(680)	20	—
			Orange	SLI-430DU	75	30	100*2	9	-40 to +85	-40 to +100	2.1	20	10	9		605*3	20	220	470	(680)	20	—
			Yellow	SLI-430Y2U	75	30	100*2	9	-40 to +85	-40 to +100	2.1	20	10	9		590*3	20	330	500	(900)	20	—
			Yellow Green	SLI-430MG	75	30	100*2	9	-40 to +85	-40 to +100	2.1	20	10	9		570*3	20	68	120	(220)	20	—
			Blue	New SLD430BN2W	120	30	100*2	5	-40 to +85	-40 to +100	3.2	20	10	5		470*3	20	330	560	(1,000)	20	—
〈特殊型〉																						
φ3.2 Circular type Direct Mount 5mm Pitch type		40°	Low Current	Red	SLI-325JRC (W)*1	48	20	60*1	4	-25 to +85	-30 to +100	1.9	20	100	4	630	20	36	160	(280)	20	—
				SLI-325UR (W)*1	48	20	60*1	4	-25 to +85	-30 to +100	1.9	20	100	4	611	20	36	160	(280)	20	—	
				SLI-325DC (W)*1	48	20	60*1	4	-25 to +85	-30 to +100	1.9	20	100	4	611	20	36	160	(280)	20	—	
				SLI-325DU (W)*1	48	20	60*1	4	-25 to +85	-30 to +100	1.9	20	100	4	591	20	36	160	(280)	20	—	
				SLI-325YC (W)*1	48	20	60*1	4	-25 to +85	-30 to +100	1.9	20	100	4	591	20	36	160	(280)	20	—	
				SLI-325YY (W)*1	48	20	60*1	4	-25 to +85	-30 to +100	1.9	20	100	4	591	20	36	160	(280)	20	—	
		40°	Standard	Red	SLR-325VC*1	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	650	10	6	16	(45)	10	—
				SLR-325VR*1	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	650	10	4	10	(28)	10	—	
				SLR-325DC*1	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	610	10	6	16	(45)	10	—	
				SLR-325DU*1	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	610	10	4	10	(28)	10	—	
				SLR-325YC*1	60	20	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	585	10	6	16	(45)	10	—	
φ3 Flat Disc type		35°	Standard	Red	SLR-322VC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	650	10	6	16	(45)	10	—
				Orange	SLR-322DC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	610	10	6	16	(45)	10	—
				Yellow	SLR-322YC	60	20	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	585	10	4	10	(28)	10	—
				Yellow Green	SLR-322MC	75	25	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	563	10	9	25	(71)	10	—
				Red	SLR-322VR	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	650	10	4	10	(45)	10	—
		50°	Standard	Orange	SLR-322DU	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	610	10	2	6	(18)	10	—
				Yellow	SLR-322YY	60	20	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	585	10	4	10	(28)	10	—
				Yellow Green	SLR-322MG	75	25	60*1	3	-25 to +85	-30 to +100	2.1	10	10	3	563	10	6	16	(45)	10	—
				SLR-322VC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	650	10	6	16	(45)	10	—	
				SLR-322DC	60	20	60*1	3	-25 to +85	-30 to +100	2.0	10	10	3	610	10	6	16	(45)	10	—	

*SLI-325/SLR-325系列仅支持直型包装。
*1 Duty1/5, 200Hz *2 Duty1/10, 1kHz *3 主波长

●品名构成说明 (LED灯)

■元件发光颜色为蓝(B)、绿(E)、白(WB)以外颜色时

系列名称	封装类型	颜色	树脂颜色	包装规格	光强等级
SLI	343 φ3 Circular type 332 φ3 Circular type 56 φ5 Circular type 560 φ5 Circular type 570 φ5 Circular type 580 φ5 Circular type 430 Oval type φ4 325 φ3.2 Circular type 322 φ3 Flat disc type	V Red U Red U2 Red D Orange Y Yellow Y2 Yellow M Yellowish green P Green	R <Red>Diffused colored U <Orange>Diffused colored Y <Yellow>Diffused colored G <Yellowish green>Diffused colored C Transparent colored T Transparent colorless	3F 1-Die straight bulk T31 Refer to taping specification T32 Refer to taping specification	请参考规格书

■元件发光颜色为蓝(B)、绿(E)、白(WB)时

系列名称	封装类型	颜色	树脂颜色	包装规格	光强等级
SLR	343 φ3 Circular type 560 φ5 Circular type 580 φ5 Circular type 430 Oval type φ4	BN Blue EN Green WBN White	T Transparent colorless W Milky white	3F 1-Die straight bulk T31 Refer to specification T32 Refer to specification	请参考规格书

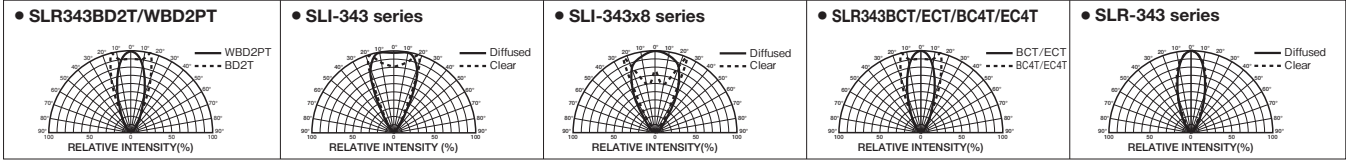
色度(仅白色时)
*“SLA560WBD2PT”不适用

〈白色时〉
3 1-Die straight bulk
1 Refer to specification (same as T31)
2 Refer to specification (same as T32)

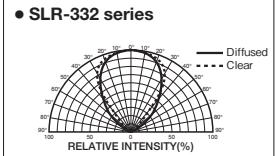
插件LED

●指向性 (单位:deg)

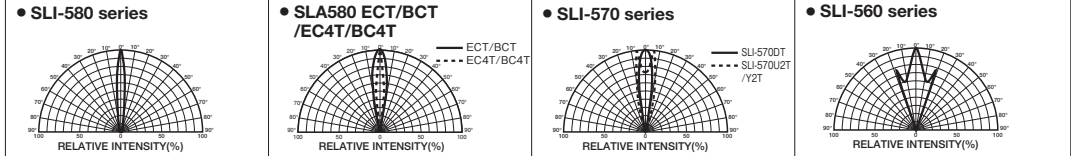
〈φ3型〉



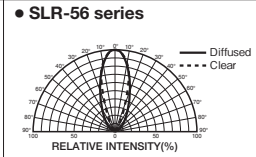
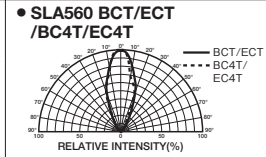
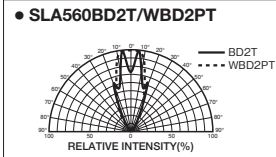
〈φ3型〉



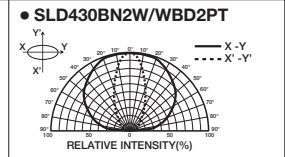
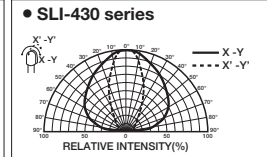
〈φ5型〉



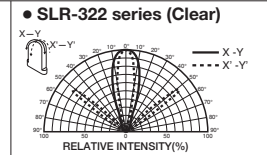
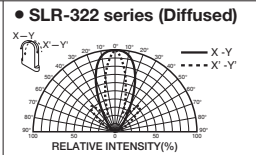
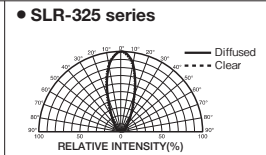
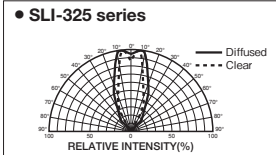
〈φ5型〉



〈橢圓型〉



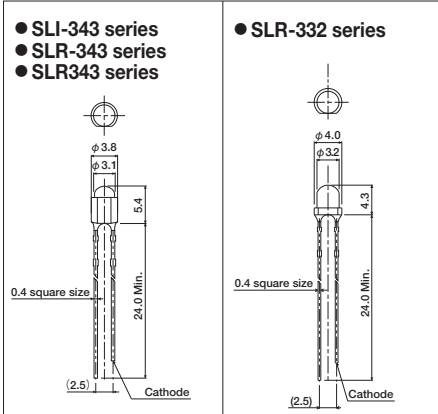
〈特殊型〉



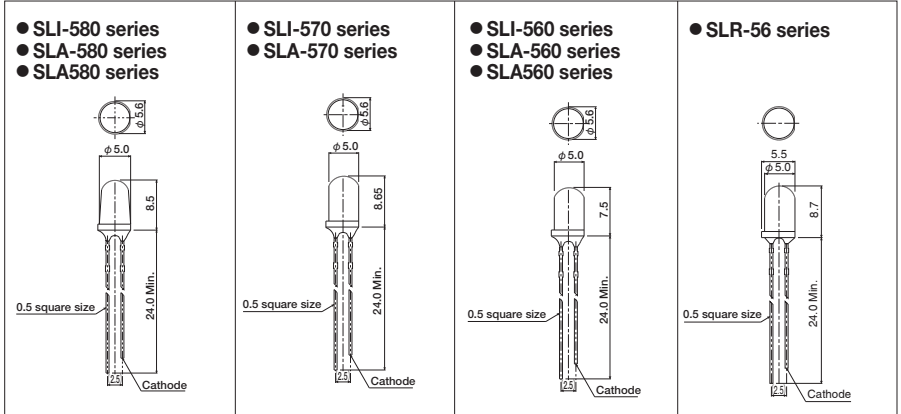
注：指向性只记载标准特性。上述以外类型请另行垂询。

●外形尺寸图 (单位:mm)

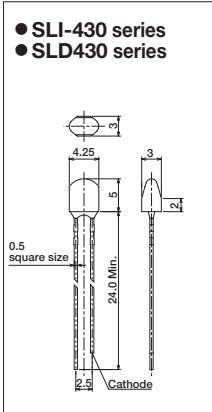
〈φ3型〉



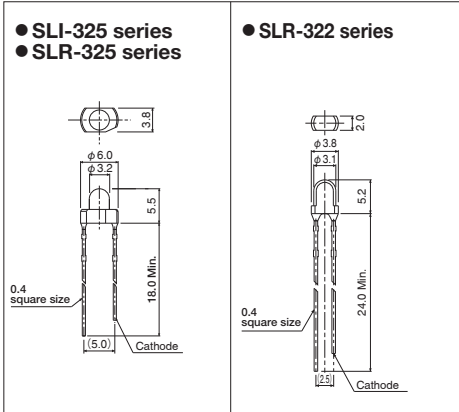
〈φ5型〉



〈橢圓型〉



〈特殊型〉



*详情请参考规格书。

LED显示器

高亮度LED数字显示器

P.257

表面贴装LED数字显示器

P.257

LED数字显示器

P.258

高亮度LED数字显示器

拥有高亮度、低功耗和高可靠性。

一位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)									
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} * (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength			Brightness/Digit I _v		
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _{peak} (nm)	λ _{1/2} (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	I _F (mA)
 Character Height: 8mm External Dimensions: (7x11)	LAP-301VB/VL	Red	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-301MB/ML	Green	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-301DB/DL	Orange	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	605	20	10	56	250	10
 Character Height: 10.16mm External Dimensions: (9.6x13)	LAP-401VD/VN	Red	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-401MD/MN	Green	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-401DD/DN	Orange	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	605	20	10	56	250	10
 Character Height: 14.6mm External Dimensions: (12.5x19)	LAP-601VB/VL	Red	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-601MB/ML	Green	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-601DB/DL	Orange	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	605	20	10	56	250	10

注：*I_{FP}的条件为duty≤1/5，Pulse width≤1ms

两位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)									
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} * (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength			Brightness/Digit I _v		
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _{peak} (nm)	λ _{1/2} (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	I _F (mA)
 Character Height: 14.3mm External Dimensions: (25x19)	LBP-602VA2/VK2	Red	896	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LBP-602MA2/MK2	Green	896	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LBP-602DA2/DK2	Orange	896	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	605	20	10	56	250	10

注：*I_{FP}的条件为duty≤1/5，Pulse width≤1ms

表面贴装LED数字显示器

ROHM的LED数字显示器支持自动回流处理。

一位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)									
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} * (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength			Brightness/Digit I _v		
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _{peak} (nm)	λ _{1/2} (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	I _F (mA)
 Character Height: 8mm External Dimensions: (6.8x11)	LF-3011VA/VK	Red	320	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	3.6	10	10
	LF-3011MA/MK	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	3.6	10	10

注：*I_{FP}的条件为duty≤1/5，Pulse width≤1ms

LED数字显示器

一位数数字显示器系列备有8~14.6mm的字符高度和红、绿发光颜色。

一位数LED数字显示器																	
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)								
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} * (mA)	Reverse Voltage V _R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength Peak Half-wave			Brightness/Digit I _V	
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _P Typ (nm)	Δλ Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)
 Character Height: 8mm External Dimensions: (7x11)	LA-301VB/VL	Red	320	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	3.6	10
	LA-301MB/ML	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	3.6	10
	LA-301AB/AL	High Brightness Red	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	626	18	20	36	90
	LA-301EB/EL	High Brightness Orange	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	610	17	20	36	90
 Character Height: 10.16mm External Dimensions: (9.6x13)	LA-401VD/VN	Red	320	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16
	LA-401MD/MN	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	5.6	16
	LA-401AD/AN	High Brightness Red	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	626	18	20	36	90
	LA-401ED/EN	High Brightness Orange	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	610	17	20	36	90
 Character Height: 13mm External Dimensions: (12.5x17.5)	LA-501VD/VN	Red	480	20	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16
	LA-501MD/MN	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	5.6	16
 Character Height: 14.6mm External Dimensions: (12.5x19)	LA-601VB/VL	Red	480	20	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	14
	LA-601MB/ML	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	9.0	22
	LA-601AB/AL	High Brightness Red	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	626	18	20	36	90
	LA-601EB/EL	High Brightness Orange	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	610	17	20	36	90

注1: *I_{FP}的条件为Duty≤1/5, Pulse width≤1 ms, 高亮度和蓝色I_{FP}为Duty≤1/10, Pulse width≤0.1 ms

两位数数字显示器系列备有10.16~14.3mm的字符高度和红、绿发光颜色。

两位数LED数字显示器																	
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)								
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} * (mA)	Reverse Voltage V _R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength Peak Half-wave			Brightness/Digit I _V	
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _P Typ (nm)	Δλ Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)
 Character Height: 10.16mm External Dimensions: (24x18)	LB-402VD/VN	Red	640	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16
	LB-402MD/MN	Green	960	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	9.0	25
 Character Height: 13mm External Dimensions: (25x17.5)	LB-502VD/VN	Red	960	20	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16
	LB-502MD/MN	Green	960	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	9.0	25
 Character Height: 14.3mm External Dimensions: (25x19)	LB-602VA2/VK2	Red	960	20	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16
	LB-602MA2/MK2	Green	960	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	9.0	25
	LB-602AA2/AK2	High Brightness Red	1,040	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	626	18	20	36	90
	LB-602EA2/EK2	High Brightness Orange	1,040	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	610	17	20	36	90

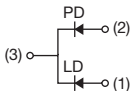
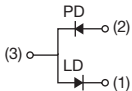
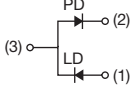
注: *I_{FP}的条件为Duty≤1/5, Pulse width≤1 ms, 高亮度和蓝色I_{FP}为Duty≤1/10, Pulse width≤0.1 ms

三位数LED数字显示器																	
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)								
			Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} * (mA)	Reverse Voltage V _R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength Peak Half-wave			Brightness/Digit I _V	
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _P Typ (nm)	Δλ Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)
 Character Height: 14.3mm External Dimensions: (37.5x18)	LB-603VF/VP	Red	960	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16

注: *I_{FP}的条件为duty≤1/5, Pulse width≤1ms

激光二极管			
红光激光二极管	P.259	激光二极管	P.260
大功率红外激光二极管	P.261	大功率面发光红外激光二极管*	P.261
品名，记号和定义	P.262	封装规格	P.264

激光二极管

红光激光二极管														
Part No.	Wavelength λ _P (nm)	Absolute Maximum Ratings (T _C =25°C)			Electrical and Optical Characteristics (T _C =25°C)							P _O (mW)	Package	Equivalent Circuit
		P _O (mW)	V _R (V)	Topr Max (°C)	I _{TH} (mA)	I _{op} (mA)	η (W/A)	V _{op} (V)	I _m (mA)	θ _⊥ (deg)	θ _{//} (deg)			
RLD65MZT7	655	7	2	70	20	30	0.70	2.3	0.24	27.0	8.0	5	 φ5.6mm	
RLD63NPC5 (Pure red)	635	6	2	40	24	33	0.55	2.2	0.18	32.0	8.0	5	 φ5.6mm (Open)	
RLD63NPC6 (Pure red)	638	12	2	50	28	43	0.70	2.3	0.15	32.0	8.0	10	 φ5.6mm (Open)	
RLD63NPC7 (Pure red)	638	17	2	50	32	57	0.60	2.2	0.16	30.0	8.0	15	 φ5.6mm (Open)	
RLD63NPC8 (Pure red)	638	24	2	50	32	65	0.60	2.25	0.20	30.0	8.0	20	 φ5.6mm (Open)	
RLD65NZX1 (Higher temp.)	663	10	2	80	15	24	0.85	2.3	0.30	27.0	9.0	7	 φ5.6mm	
RLD65NZX2 (Higher ESD)	658	7	2	70	25	33	0.60	2.3	0.20	28.0	8.5	5	 φ5.6mm	
RLD63PZCA (Pure red)	638	7	2	50	28	33	0.80	2.2	0.08	32.0	8.0	5	 φ5.6mm	
RLD65PZX2 (Higher ESD)	658	7	2	70	25	33	0.60	2.3	0.20	28.0	8.5	5	 φ5.6mm	
RLD65PZX3 (Higher ESD)	658	12	2	70	25	42	0.60	2.3	0.30	28.0	8.5	10	 φ5.6mm	

注：除另行标注外，所有电气及光学特性皆为标准值。

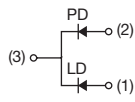
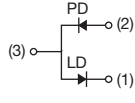
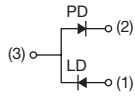
●关于开封品

开封产品(包装MARK为P的产品)的特性和可靠性可能因外部环境而恶化。
对于包含碳粉、人为异物、香烟烟雾在内的异物、离子导致的腐蚀、粘接剂及助焊剂的挥发性成分带来的影响、冷凝、光镊子效应等，请采取足够完善的解决措施。

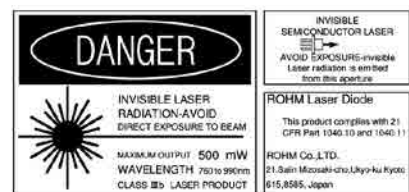
此外，请注意不要触碰激光芯片发光部等组成器件。



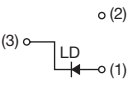
激光二极管

激光二极管														
Part No.	Wavelength λ _P (nm)	Absolute Maximum Ratings (T _C =25°C)			Electrical and Optical Characteristics (T _C =25°C)							P _O (mW)	Package	Equivalent Circuit
		P _O (mW)	V _R (V)	Topr Max (°C)	I _{TH} (mA)	I _{op} (mA)	η (W/A)	V _{op} (V)	I _m (mA)	θ _⊥ (deg)	θ// (deg)			
RLD78MZA6	790	4.5	2	70	25	35	0.35	1.9	0.15	37.0	11.0	3		
RLD78MZM7	792	20	2	60	11	33	0.65	1.8	0.50	24.0	8.5	15		
RLD78NZM5	793	10	2	60	10	20	0.55	1.8	1.15	28.0	9.0	6		
RLD78NZM7	792	20	2	60	11	33	0.65	1.8	0.90	24.0	8.5	15		
RLD82NZJ1	822	220	2	60	50	255	0.95	2.4	0.30	17.0	9.5	200		
RLD84NZJ2	842	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200		
RLD85NZJ4	852	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200		
RLD94NZJ7	942	220	2	60	40	300	0.75	2.4	1.00	17.0	9.5	200		
RLD78PZM7	792	20	2	60	11	33	0.65	1.8	0.65	24.0	8.5	15		
RLD82PZJ1	822	220	2	60	50	255	0.95	2.4	0.30	17.0	9.5	200		
RLD84PZJ2	842	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200		
RLD85PZJ4	852	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200		
RLD94PZJ5	942	285	2	65	55	325	0.75	2.2	0.90	30.0	35.0	200		

注：除另行标注外，所有电气及光学特性皆为标准值。



大功率红外激光二极管

Part No.	Wavelength λ_p (nm)	Absolute Maximum Ratings ($T_c=25^\circ\text{C}$)			Electrical and Optical Characteristics ($T_c=25^\circ\text{C}$)							Measurement pulse condition	Package	Equivalent Circuit
		P_o (W)	I_F (A)	T_{opr} Max ($^\circ\text{C}$)	P_o (W)	I_{TH} (A)	I_{op} (A)	V_{op} (V)	$\theta_{\perp}$ (deg)	$\theta_{//}$ (deg)	Emission area ($\mu\text{m}\times\mu\text{m}$)			
☆RLD90QZW7	905	6	6	85	5	0.4	5	4	20	13	70×2	Pulse width 50ns duty 0.05%		
New RLD90QZWJ		25	9		25	0.4	9	15	20	14	50×10			
☆RLD90QZWB		30	11		25	0.4	9	13	25	14	50×10			
RLD90QZW5		25	9		25	0.4	9	14	25	12	70×10			
☆RLD90QZWC		30	11		25	0.4	9	12	25	13	70×10			
New RLD90QZWD		40	13		35	0.4	12	11	25	13	100×10			
New RLD90QZW3		90	30		75	0.9	27	16	25	10	225×10			
☆RLD90QZW8		145	50		120	1	40	16	25	10	270×10			

注：除另行标注外，所有电气及光学特性皆为标准值。

☆：开发中

大功率面发光红外激光二极管*

Part No.	Wavelength λ_p (nm)	Electrical and Optical Characteristics ($T_c=25^\circ\text{C}$)							Emission area (mm×mm)	Measurement pulse condition	Package	Equivalent Circuit
		P_o (mW)	I_F (mA)	V_F (V)	I_{TH} (mA)	PCE (%)	θ (deg×deg)	η (W/A)				
☆RLD94SAQ6	940	200	300	2	70	33	13×13	0.85	0.41×0.23	Pulse width 800μs 1shot		
☆RLD94SAQ8	940	2,000	3,000	2	750	40	-00x: 20×20 -10x: 60×45 -20x: 72×55 -30x: 90×69 -40x: 110×85	1	1.10×0.82	Pulse width 400μs 1shot		

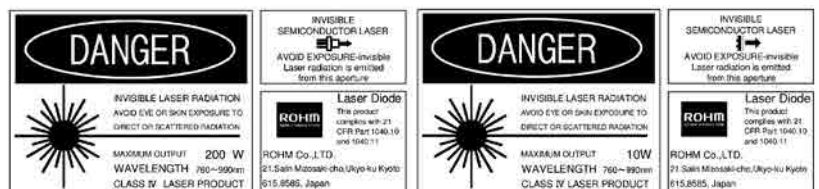
注：除另行标注外，所有电气及光学特性皆为标准值。

*也可出售元件。详细内容请咨询销售人员。

☆：开发中

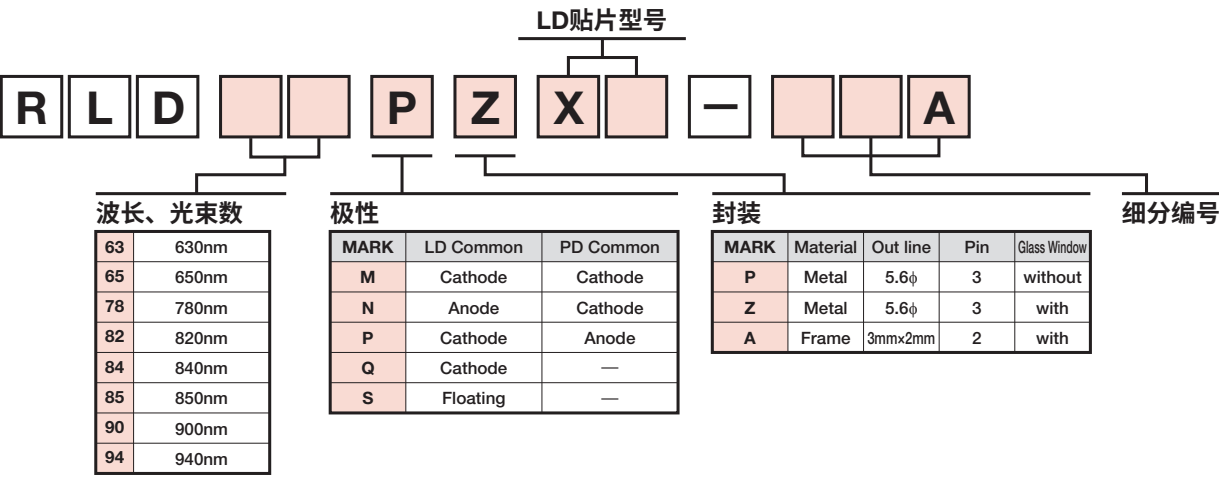
●关于安全性

本产品旨在用于普通的电子设备或装置。
激光二极管发出的光对人体有害，因此不要直视
或用镜片、硬化纸板等观看发光部。



如果需要在要求极高可靠性的、因产品故障或误操作会直接引起人身安全的机器或装置中使用，请事先向我们的销售代表咨询。

●品名构成说明

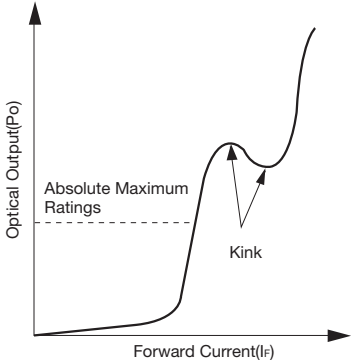


●记号和定义

■绝对最大额定值

在任何外部条件下，就是瞬间也不得超过的数值即绝对最大额定值。
以外壳温度T_c=25℃时的数值作出规定。

■Fig.1 光输出-正向电流特性

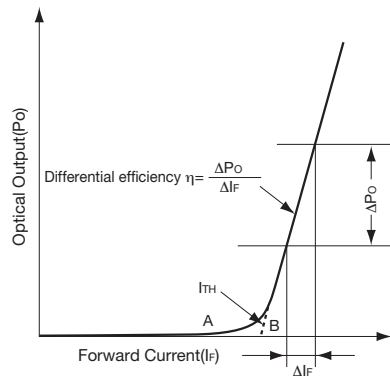


Parameter	Symbol	Definition
Optical Output	P _o	Maximum allowable optical output during continuous or pulse operation. No kinks will appear in the output vs. forward current curve up to this output value. (Fig.1)
Reverse Voltage	V _R	The maximum allowable voltage when a reverse bias is applied to the device. Lasers and photo diodes are rated separately.
Operating Temperature	T _{opr}	Allowed ambient temperature range when the device is in operation. Delined to be the case temperature of the device.
Storage Temperature	T _{stg}	Allowed temperature range when the device is being stored.

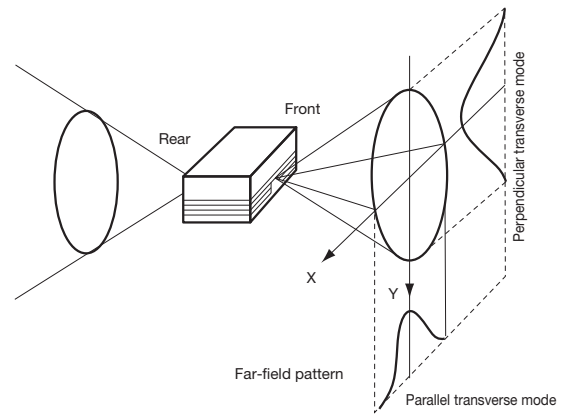
■电气及光学特性

Item	Symbol	Definition
Threshold Current	I _{TH}	In Fig.2, A is the spontaneous emission range and B is the stimulated emission range. The threshold current is the current at which laser emission begins.
Operating Current	I _{OP}	The forward current required to generate the specified optical output.
Operating Voltage	V _{OP}	The forward voltage required to generate the specified optical output.
Differential Efficiency	η	The average increase in the output per unit of drive current. In the laser emission range, this is the slope of the linear optical output vs. forward current curve. (Fig.2)
Monitor Current	I _m	When the specified optical output is generated, this is the output current of the photodiode when a specified reverse voltage is applied to the monitor photodiode.
Parallel Divergence Angle Perpendicular Divergence Angle	θ / θ _⊥	Light emitted from the laser spreads as shown in Fig.3. The result of measurements of this spread in the parallel (x) and perpendicular (y) directions with respect to the junction surface is shown in Fig.3. The widths of the spread at the points where the strength drops to 1/2 the peak strength (half value full angles) are defined as angles and called θ and θ _⊥ . (Fig.4)
Parallel Deviation Angle Perpendicular Deviation Angle	Δα / Δα _⊥	These values express the deviation of the optical axis with respect to the reference plane, and are defined for the parallel and perpendicular spread angles (Fig.4) to be (a - b)/2 (Fig.5).
Emission Point Accuracy	ΔX, ΔY, ΔZ	This indicates the amount of deviation of the emission point. ΔX and ΔY indicate deviation from the center of the package, and ΔZ indicates deviation from the reference plane. (Fig.6)
Peak Emission Wavelength	λ	Peak emission wavelength when generating the specified output. As shown in Fig.7, the emission spectrum has both a single mode and a multimode. In the multimode, the wavelength is defined as the wavelength with the highest intensity.
Power Conversion Efficiency	PCE	This indicates the ratio of optical output to input electric power.

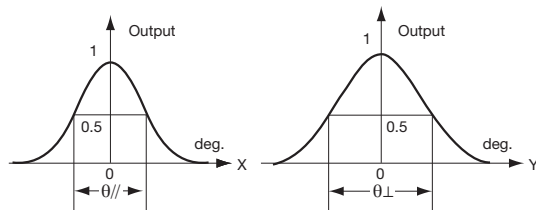
■Fig.2 光输出-正向电流特性



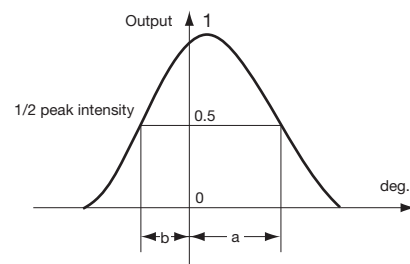
■Fig.3 辐射特性



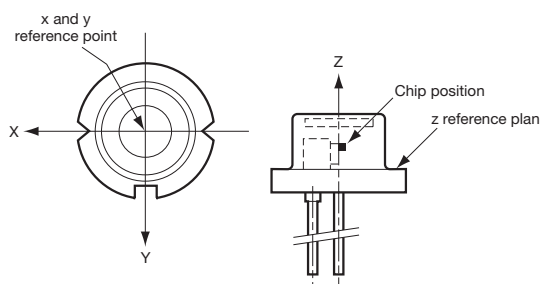
■Fig.4 辐射特性



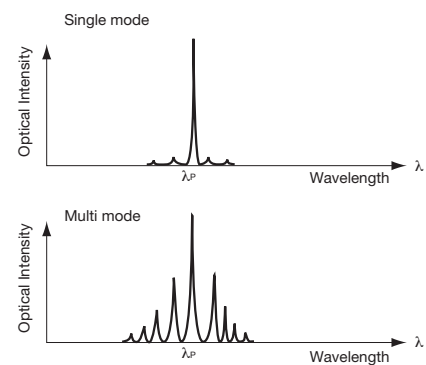
■Fig.5 光轴倾角



■Fig.6 发光点位置



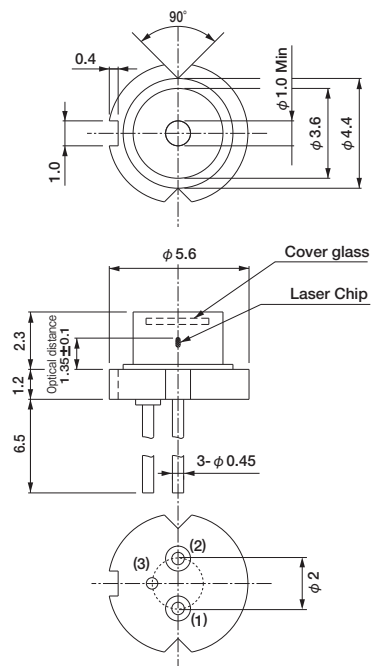
■Fig.7 振荡光谱特性



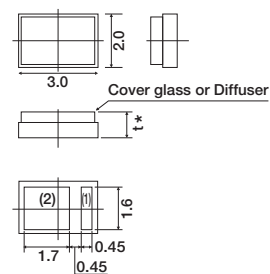
封装规格

●外形尺寸图 (单位:mm)

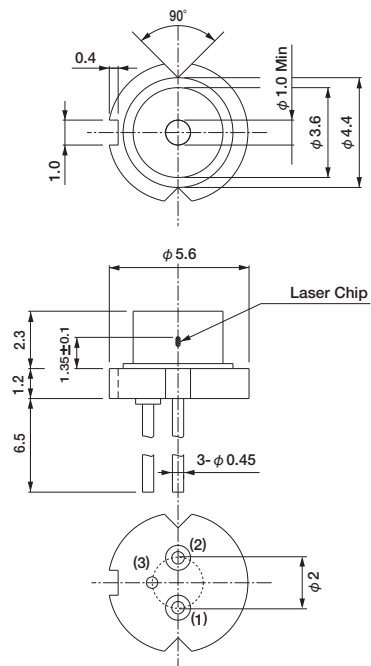
φ5.6mm



High Power Infrared VCSEL



φ5.6mm (Open)



*根据品名有所不同，使用前请务必确认规格书。

光学传感器			
透过型光电断路器	P.265	反射型光电传感器	P.266
红外发光二极管	P.267	光电晶体管	P.267
照度・接近一体型传感器	P.267	封装	P.268

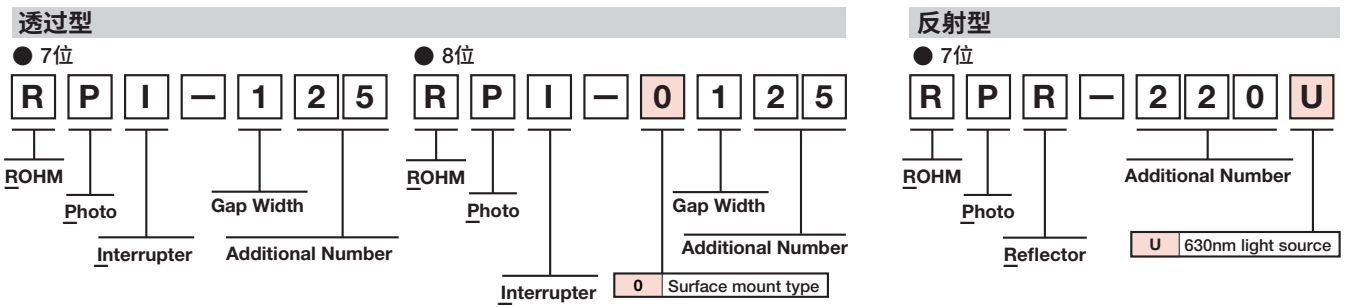
透过型光电断路器

线性光电晶体管输出												
Package	Exterior	Part No.	Output type	Standard Characteristics						Packing Specifications	Positioning	Remarks
				Detection Groove Width (mm)	Slit Width (mm)	I _c (mA)	V _{CE} (V)	I _F (mA)	tr, tf (μs)			
Surface Mount type		RPI-0125	Phototransistor	1.2	0.3	0.45 Min 4.95 Max	5	20	10	Taping		Ultra-Compact
		RPI-0226		2.0	0.3	0.1 Min	5	5	50		✓	Compact
		RPI-0352E		3.0	0.4	0.18 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency
		RPI-0451E		4.5	0.5	0.16 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency
Lead type		RPI-122		0.8	0.25	0.18 Min 1.08 Max	0.7	3	10	Bulk		Ultra-Compact
		RPI-121		0.8	0.4	0.7 Min	5	20	10			Ultra-Compact
		RPI-125		1.2	0.3	0.45 Min 4.95 Max	5	20	10			Ultra-Compact
		RPI-221		2.3	0.4	0.2 Min	5	20	10			
		RPI-222		2.0	0.2	0.18 Min 0.95 Max	5	10	10			
		New RPI-222G		2.0	0.2	0.18 Min 0.95 Max	5	10	10			Halogen free
		RPI-243		2.0	0.4	0.5 Min	5	20	10			
		RPI-246		2.0	0.2	0.35 Min 1.2 Max	5	20	10			
		RPI-352		3.0	0.4	0.2 Min	5	20	10		✓	Wide Gap
		RPI-441C1		4.0	0.5	0.2 Min	5	20	10		✓	Wide Gap
		RPI-441C1E		4.0	0.5	0.2 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency

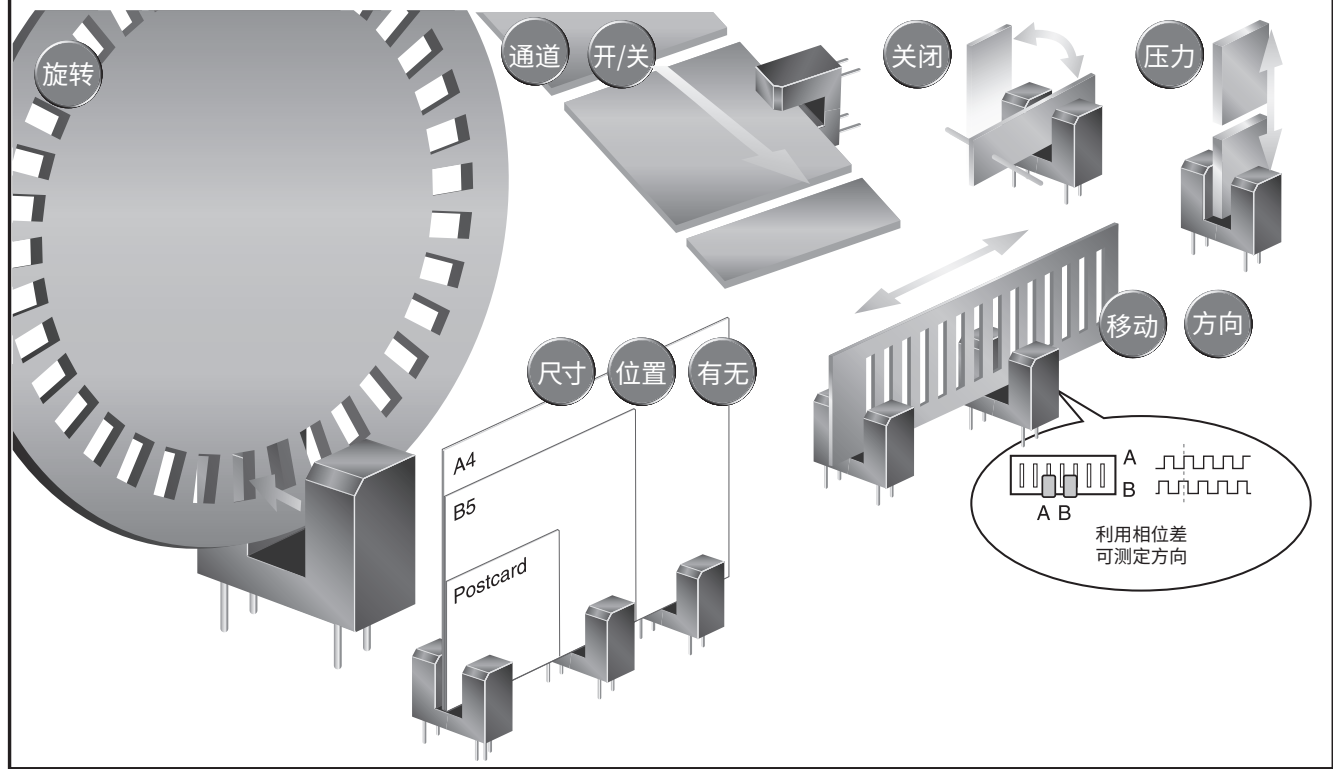
反射型光电传感器

光反射器型												
Package	Exterior	Part No.	Output type	Standard Characteristics								
				Focal Length (mm)	LED λ_p (nm)	PTr λ_p (nm)	I _C (mA)	V _{CE} (V)	I _F (mA)	t _r , t _f (μs)	Packing Specifications	Remarks
Lead type		RPR-220	Phototransistor	6.0	940	800	0.08 Min 0.8 Max	2	10	10	Bulk	
		RPR-220UC30N		6.0	630	800	0.08 Min 0.8 Max	5	10	10	Stick	Emitting Color: Red

品名构成说明



任何位移的探测



红外发光二极管

适用于遥控器送信机、光通信等，拥有丰富的产品系列。

红外发光二极管 1											
Package	Exterior	Part No.	Features	Absolute Maximum Rating	Standard Characteristics						
				I_F (mA)	I_E (mW/sr)	I_F (mA)	V_F (V)	I_F (mA)	λ_P (nm)	tr, tf (μs)	$\theta_{1/2}$ (deg)
φ3 resin		SIR-34ST3F	Optimized for remote controls	100	10.5	50	1.3	100	950	1	27
		SIR-341ST3F	Compact, high power	75	18.1	50	1.3	50	940	1	16
φ5 resin		SIR-56ST3F	Optimized for remote controls	100	15	50	1.3	100	950	1	15
		SIR-563ST3F	High output, Optimized for remote controls	100	21	50	1.34	50	940	1	15

●品名构成说明

S	I	R	-	3	4	1	S	T	3	F
系列名称			附加编号	输出形态		封装颜色		引脚形状		
SIR φ3 and φ5 types lamp infrared LED			S	Infrared LED		T Clear		3F Straight		

光电晶体管

罗姆的光电晶体管多用于高可靠性、高输出的小型精密仪器，拥有φ3mm的正面发光型和侧面发光型。

光电晶体管 1											
Package	Exterior	Part No.	Feature	Visible Light Filter	Visible Light Filter		Standard Characteristics				
					V_{CEO} (V)	P_C Max (mW)	I_{CEO} Max (μA)	V_{CE} (V)	I_C (mA)	λ_P (nm)	tr, tf (μs)
φ3 resin		RPT-34PB3F	Visible light filter	✓	32	150	0.5	10	2.0 Min	800	10
		RPT-37PB3F	Visible light filter, Polarity discrimination	✓	32	150	0.5	10	2.0 Min	800	10
		RPT-38PB3F	Visible light filter	✓	32	150	0.5	10	2.0 Min	800	10

●品名构成说明

R	P	T	-	3	4		P	B	3	F
系列名称			附加编号	输出形态		封装颜色	引脚形状			
RPT φ3 type Photo Detector			P	Phototransistor		B Colored	3F Straight			

照度・接近一体型传感器

照度・接近一体型传感器									
Package	Exterior	Part No.	Features	Visible Light Filter	Interface	Absolute Maximum Rating		Standard Characteristics	
						V_{DD} Max (V)	V_{LED} Max (V)	PS Sensor Out (Count)	λ_P (nm)
Surface Mount type		RPR-0521RS	Proximity Sensor and Ambient Light Sensor	Built-in Noise Cancellation Function	I ² C	4.5	7	80	940

封装

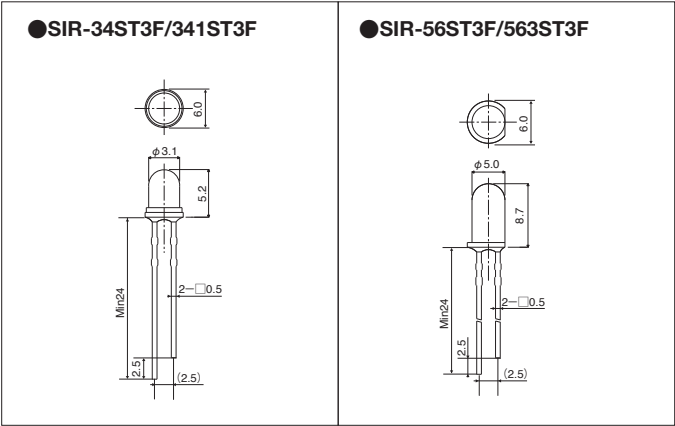
●外形尺寸图 (单位: mm)

◀光斩波器▶

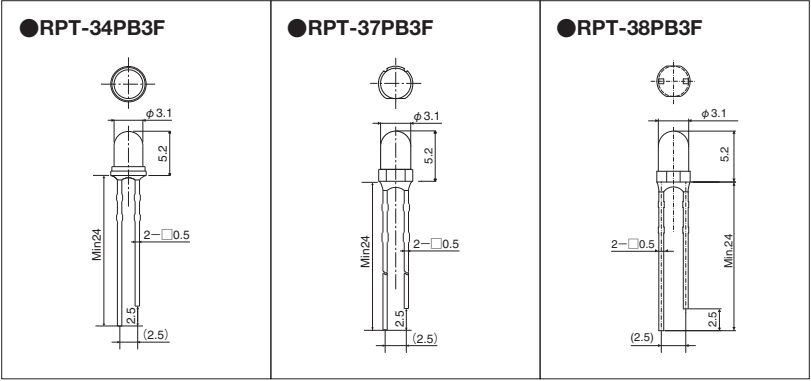
●RPI-0125	●RPI-0226	●RPI-122	●RPI-121
●RPI-125	●RPI-221	●RPI-222, RPI-222G	●RPI-243
●RPI-246	●RPI-0352E	●RPI-352	●RPI-441C1, RPI-441C1E
●RPI-0451E	●RPR-220	●RPR-220UC30N	

●外形尺寸图 (单位：mm)

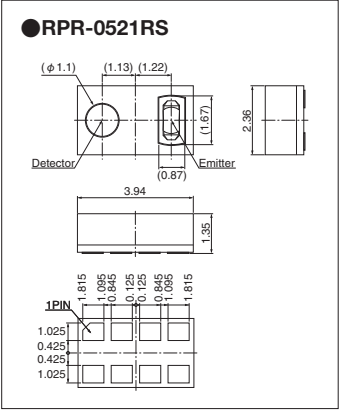
〈红外发光二极管〉



〈光电晶体管〉



〈照度・接近一体型传感器〉



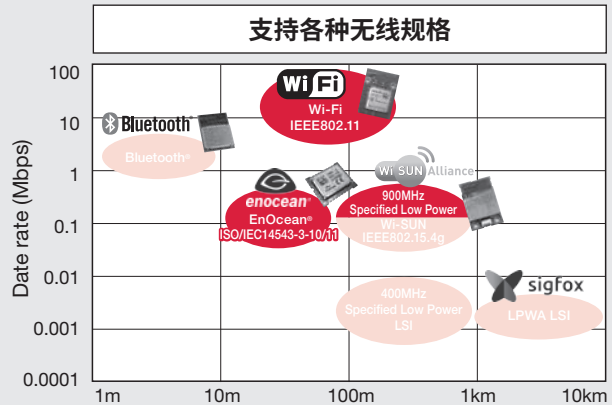
无线通信模块

关于罗姆的无线通信技术	P.270	Wi-SUN通信模块(特定小功率通信模块)	P.270
无线LAN模块	P.270	Bluetooth®模块	P.271
EnOcean®通信模块	P.271	13.56MHz(NFC)无线充电模块	P.271

关于罗姆的无线通信技术

■无线通信

罗姆集团进行广泛的无线通信元器件研发。



Wi-SUN通信模块 (特定小功率通信模块)

- 920MHz频段 特定小功率无线模块
- 先进接收灵敏度
- 内置天线无需高频设计
- 发送功率已调整完毕
- MAC地址已写入完毕
- 已获得日本电波法认证
- 使用LAPIS Technology生产的LSI

Built-in antenna	Surface mount	USB dongle
 BP35A1	 BP35C0  BP35C0-J11  BP35C5	 BP35C2

Wi-SUN通信模块(特定小功率通信模块)

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Host I/F	Compatible Standards	Radio law Certification	Dimensions (mm)	Package
BP35A1	2.7 to 3.6 (Single power)	-20 to +80	UART	Wi-SUN Route-B	TELEC	22.0×33.5×3.9	Connector joint type 0.5mm pitch, 20pin
BP35C0	2.6 to 3.6 (Single power)	-30 to +85	UART	Wi-SUN Route-B/HAN	TELEC	15.0×19.0×2.6	SMD 1.27mm pitch, 28pin
BP35C0-J11	2.6 to 3.6 (Single power)	-30 to +85	UART	Wi-SUN Route-B/HAN/Enhanced HAN	TELEC	15.0×19.0×2.6	SMD 1.27mm pitch, 28pin
BP35C2	5.0 (Single power)	-20 to +50	USB	Wi-SUN Route-B/HAN	TELEC	21.4×49.7×8.5	USB Dongle
BP35C5	2.6 to 3.6 (Single power)	-30 to +85	UART	Wi-SUN FAN	TELEC/FCC	15.0×19.0×2.6	SMD 1.27mm pitch, 30pin

无线LAN模块

- IEEE802.11b/g/n对应无线LAN模块
- 配备罗姆自制基带IC
- 发送功率已调整
- 已获得日本无线电波法认证

Surface mount	Built-in antenna	Built-in antenna and small size	Built-in antenna and flash memory	Built-in antenna and MCU
 BP3580	 BP3591	 BP3595	 BP3599	 BP359B

无线LAN模块

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Host I/F	Compatible Standards/Module Specifications	Onboard IC	Dimensions (mm)	Package*
BP3580	3.1 to 3.5 (Single power)	-40 to +85	USB/SDIO/UART	•IEEE802.11b/g/n	BU1805AGU	17.0×17.0×2.3	SMD 1.27mm pitch, 48pin
BP3591	3.1 to 3.5 (Single power)	-40 to +85	USB/SDIO/UART	•IEEE802.11b/g/n •BP3580 and chip-antenna into 1 module	BU1805AGU	24.0×33.1×4.7	Connector joint type 0.5mm pitch, 34pin
BP3595	3.1 to 3.5 (Single power)	-40 to +85	USB/SDIO/UART	•IEEE802.11b/g/n •The small size type of BP3591	BU1805AGU	15.3×27.6×2.6	Connector joint type 0.4mm pitch, 30pin
BP3599	3.1 to 3.5 (Single power)	-40 to +85	USB/SDIO/UART	•IEEE802.11b/g/n •Type with flash memory mounted on BP3591 •Firmware is written in a flash memory	BU1805AGU	24.0×33.1×4.7	Connector joint type 0.5mm pitch, 34pin
BP359B	3.1 to 3.5 (Single power)	-40 to +70	UART	•IEEE802.11b/g/n •Type with MCU and flash memory mounted on BP3591 •Firmware is written in a flash memory	BU1805AGU	24.0×33.1×4.7	Connector joint type 0.5mm pitch, 34pin

*使用自创的电源模块封装。

Bluetooth®模块 Bluetooth®

- 超低消耗电流, 适用于需要延长硬币电池和纽扣电池寿命的设备
- 支持Bluetooth® low energy单通道的模块
- 内置图形天线, 出货时已调整无线特性
- 已通过的电波法认证: 日本电波法认证、FCC、ISED(IC)、CE
- 已获得Bluetooth认证



Bluetooth® low energy模块											(LAPIS Technology产品)	
Part No.	Supply Voltage (V)	Operating Temperature (°C)	Host I/F	Bluetooth Certification	Radio law Certification	Module Specification	Include Flash/RAM	Include Crystal Oscillator	Include Antenna	Dimension (mm)	Package	
MK71511-NNN	1.7 to 3.6	-40 to +85	UART SPI	Ver5.2 (Single mode) QDID: 146733 (RF-PHY Component)	TELEC/FCC/ ISED/CE	Role: Master/Slave Application: Blank	Flash: 192KB RAM: 24KB	32MHz 32.768kHz	Pattern	9.7×13.4×2.0	M-FLGA54- 9.7X13.4- 0.80-9Y	
MK71511A-NNN							32MHz	M-FLGA54- 9.7X13.4- 0.80-9Y				
MK71521-NNN				Ver5.2 (Single mode) QDID: 146740 (RF-PHY Component)			Flash: 512KB RAM: 64KB	32MHz 32.768kHz			M-FLGA54- 9.7X13.4- 0.80-9Y	
MK71521A-NNN								32MHz			M-FLGA54- 9.7X13.4- 0.80-9Y	

Bluetooth®是Bluetooth SIG的注册商标。

EnOcean®通信模块

EnOcean®通信模块是利用环境发电的无需电池的无线通信模块。

- 特点
- 支持EnOcean®通信标准(ISO/IEC14543-3-10/11)
 - 内置天线无需高频设计
 - 已获得日本电波法认证

* 本产品已获得日本电波法认证, 可作为928MHz频带特定小功率无线电台使用。

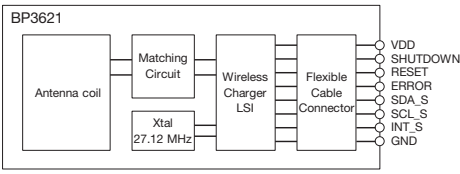
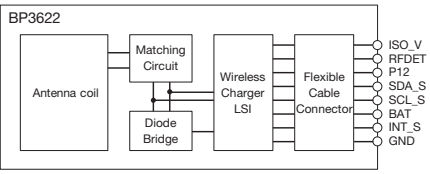
EnOcean®通信模块、元器件											
Frequency Band	Use Target Area	Products									
		Energy converter for motion energy harvesting (for the switch module)	Transmitter module (for switch module)	Push button multi-channel switch module	Energy harvesting wireless transceiver module	Programmable transceiver module	Energy harvesting magnet contact module	Energy harvesting temperature sensor module	Humidity sensor module	Receiver USB module	Development kit
928MHz	Japan	ECO 200	PTM 535J	PTM 215J	STM 400J	TCM 410J	STM 429J	STM 431J	HSM 100	USB 400J	EDK 400J*
868MHz	Europe*China	ECO 200	PTM 535	PTM210/PTM215	STM 300	TCM 310	STM 329	STM 331	HSM 100	USB 300	EDK 350
902MHz	North America	ECO 200	PTM 535U	PTM 215U	STM 300U	TCM 310U	STM 320U	STM 331U	HSM 100	USB 500U	
921MHz	Asia	ECO 200	—	—	—	—	—	STM 431T	HSM 100	USB 500T	

*EDK 400J包装内物品: PTM 215J(开关模块)/USB 400J(接收用USB模块)/PTM 535J(开关模块用电路板)/ECO 200(开关模块用电磁感应发电元件)/STM 431J(温度传感器模块)/STM 400J(能量采集无线模块)/EOP 350(编程板: 置换STM 431J、STM400J等固件时使用)/USB电缆(连接EOP 350和PC的电缆)
●EDK 400J内的STM 400J贴装于用于连接EOP 350的专用电路板上。

*EnOcean®是EnOcean GmbH的注册商标。

13.56MHz(NFC)无线充电模块

13.56MHz无线充电模块是搭载天线的电路板一体化模块。可大幅减少天线设计和匹配调整的开发工时, 轻松实现无线充电功能。有助于实现可穿戴式设备及IoT设备等所需的小型、无连接器、防水防尘等框体的设计。

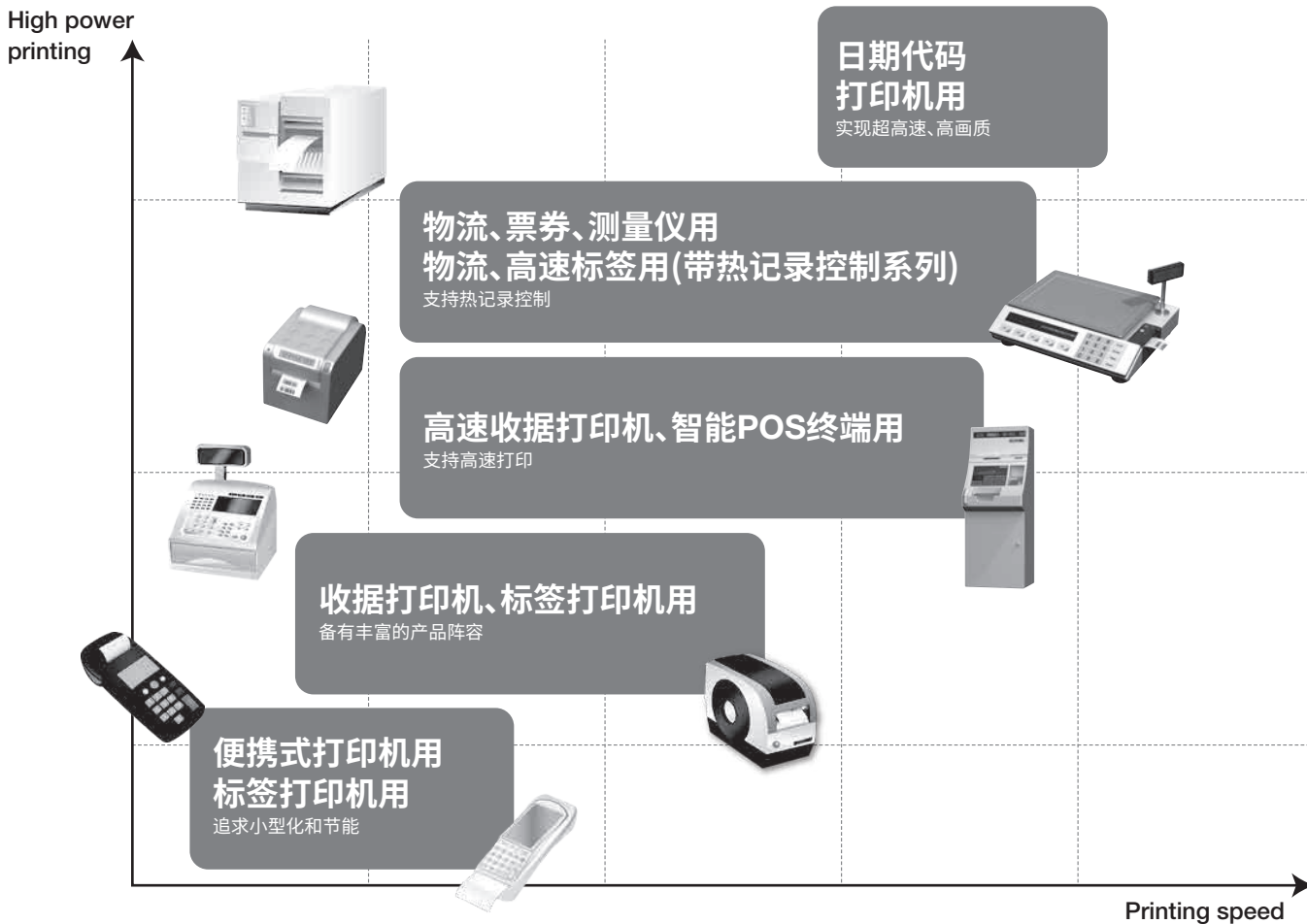
BP3621 (输电模块)		BP3622 (受电模块)	
			
			

大范围供电型13.56MHz无线充电输电模块									
Part No.	Transmitter/Receiver	Module type	Module size (mm)	Weight (g)	Supply Voltage (V)	Output Power (Max) (mW)	Feeding Distance (d) (mm)	Operating Temperature (°C)	Interface
ew BP3621	Power Transmitter	Wide Range type	35.0×26.0×1.5	0.80	4.5 to 5.5	—	10	−10 to +50	8pin, 0.5mm pitch, FPC connector
大范围供电型13.56MHz无线充电受电模块									
ew BP3622	Power Receiver	Wide Range type	24.0×17.0×1.5	0.38	—	200	10	−10 to +50	8pin, 0.5mm pitch, FPC connector

热敏打印头

选型指南	P.272	品名构成说明	P.272
便携式打印机用系列	P.273	标签打印机用系列	P.273
收据打印机、标签打印机用系列	P.274	高速收据打印机、智能POS终端用系列	P.275
物流、票券、测量仪用系列	P.276	物流、高速标签用系列(带热记录控制)	P.276
日期代码打印机用系列	P.277		

选型指南



产品种类丰富，可针对打印宽度、打印密度、接口等各种要求提供方案。
对于产品阵容中没有的产品，请咨询罗姆的销售窗口。

品名构成说明

型号总位数为13位时

K	D	2	0	0	4	-	D	1	F	W	0	0	A
打印头结构 例)		打字密度 例)		打字宽度 例)		系列选项 例)		识别编号					
KA/ KR	Flat structure, Full glaze	10	100dpi	01	1inch	DA	Both side type connectors with Heatsink						
KD	Flat structure, Partial glaze	15	150dpi	02	2inch	D1	Both side type connectors without Heatsink						
SH	Near-edge structure, Partial glaze	18	180dpi	03	3inch	etc.							
		20	203dpi	04	4inch								
		30	300dpi	05	5inch								
		36	360dpi	06	6inch								
		60	600dpi	08	8inch								
				10	10inch								

型号总位数为11位时

K	D	2	0	0	4	-	D	F	1	0	A
打印头结构 例)		打字密度 例)		打字宽度 例)		系列选项 例)		识别编号			
KA/ KR	Flat structure, Full glaze	10	100dpi	01	1inch	DF	Both side type connectors with Heatsink Center type connector with Heatsink				
KD	Flat structure, Partial glaze	15	150dpi	02	2inch	DG					
		18	180dpi	03	3inch	etc.					
		20	203dpi	04	4inch						
		30	300dpi	05	5inch						
		36	360dpi	06	6inch						
		60	600dpi	08	8inch						
				10	10inch						

便携式打印机用系列



■特性

除了 7.2V 锂离子电池驱动的标准产品外，还增加了 3.6V 驱动的节能型和 12V 驱动的高速打印型产品，可满足设备的多样化需求。

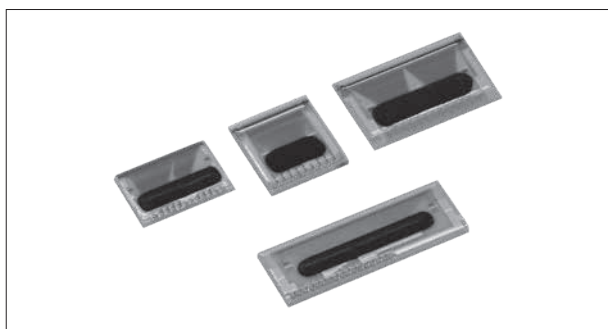
■应用

适用于电压低且电流容量有严格限制的便携式打印机和要求小型、节能的 EFT-POS 终端、收据打印机、小型标签打印机等。

便携式打印机用系列													
	Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (Vcc)	Connector type	Abrasion life (km)	Pulse life (million pulses)	
New	KR2002-D06B71A	203	48	384	80	8	100	4.2	2.70 to 5.25	—	50	100	
New	KR3002-B06N1BA	300	48.8	576			50						
	KA2002-B05B70A	203	48	384	176		100	7.2					Flat Cable
New	KA2002-H05N00A												
	KA2002-B35N00A		72	576		14							
	KA2003-B35N00A												
New	KA2003-H05N10A	300	104	832	8		75	—					
	KA2004-D35N90A												
						48.8				576			14
New	KA3002-H05N00A												
New	KA3003-H05N20A	73.2	864	14	12								
New	KA3004-H05N11A	106	1,248	8									
New	KD2002-G0JB10A	203	48	384	210	14	150	14		—	50		
New	KA3008-C03N10A	300	219.542	2,592	395		100	14					

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

标签打印机用系列



■特性

采用罗姆自创的结构，为打印机的小型、轻量化作出贡献。
采用与标签的接触性良好、耐腐蚀性强、可靠性优异的厚膜结构，同时采用了热能效率优异的节能发热体结构。

■应用

适用于为展示和包装等用途出具标签的标签打印机。

标签打印机用系列													
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (V _{cc})	Connector type	Abrasion life (km)	Pulse life (million pulses)		
KL0643-BB11A	180	9.024	64	281	14	50	7.2	3.00 to 5.25	—	30	50		
KL2000-E0KN60	203	12	96	142	17			2.70 to 5.25		50			
KL1801-DB92A	180	18.048	128	400	14			4.75 to 5.25		30			
KA2001-B05N30	203	24	192	123				2.70 to 5.25		50	100		
New KD3001-H0JN11	300	32.5	384	210								50	50

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

收据打印机、标签打印机用系列



■特性

通过采用适合各种打印速度和媒介的发热体结构，兼顾打印品质和节能性。采用高频时钟，还可支持高级控制功能。

■应用

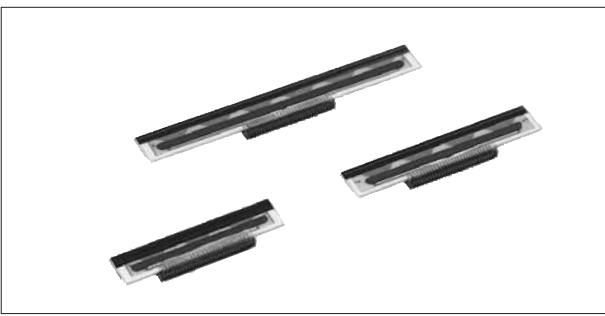
适用于在各领域广泛使用的 POS 终端、ATM 机等的收据打印机、标签打印机，以及老虎机、彩票打印机。



收据打印机、标签打印机用系列												
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (V _{cc})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-CAFW00A	203	54	432	800	14	150	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-CAFW00A		72	576									
KD2004-CAFW00A		108	864									
KD2002-CG11A		54	432		20				100			
KD2003-CG11A		72	576									
KD2004-CG11A		108	864									
KD2008-CF10A	216	1,728	1,000	125	Wire Cable	50					50	
KD2008-CF16A			800	100								
KD3008-CF10A			1,250	150								
KD2008-CG50A	203	216	1,728	800	12			200	4.75 to 5.25			Flat Cable
KD2003-L0GBA0A		72	576						3.13 to 5.25	—		
KD3003-LEGW00A	300	73.18	864	1,000	20			125		3.13 to 5.25		Flat Cable

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

高速收据打印机、智能POS终端用系列



■特性

采用支持高速打印的自创的发热体结构，实现高速打印和清晰的打印效果。对各种媒介实现高画质打印。

■应用

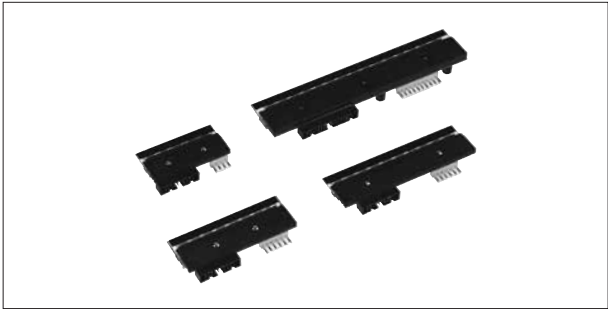
适用于支持高速打印的智能 POS 机、ECR 打印机和厚纸小型标签打印机。



高速收据打印机、智能POS终端用系列																
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (Vcc)	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)				
 KD2002-G0GB00A	203	56	448	650	14	250	24	3.13 to 5.25	—	NO	100	100				
 KD2003-G0GB00A		88	640													
 KD2004-G0GB00A		104	832													
 KD2002-G0FW00A		56	448													
 KD2003-G0FW00A		88	640													
 KD2004-G0FW00A		104	832													
 KD3002-G0FW00A	300	54.208	640	1,000												
 KD3003-G0FW00A		81.312	960													
 KD3004-G0FW00A		108.416	1,280													
 KD3002-G1FW00A		54.208	640													
 KD3003-G1FW00A		81.312	960													
 KD3004-G1FW00A		108.416	1,280													
KD2005-UAGX00A	203	144	1,152	800	20	125	4.75 to 5.25			YES	50	50				
KD3002-KAFW00A	300	54.208	640	1,000	18	200				3.13 to 5.25		NO	150	100		
KD3003-K5FW00A		81.312	960		20				Flat Cable				100			
KD3003-KAFW00A		108.416	1,280		18	75			Wire Cable	YES	150					
KD3004-KAGW00A		216.832	2,560		25	100										
KD3008-DF54A										4.75 to 5.25						

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

物流、票券、测量仪用系列



■特性

该系列是通过采用支持高速打印的发热体结构和高耐久性保护膜，以及支持大电流的结构，来满足工业设备所要求的高可靠性。

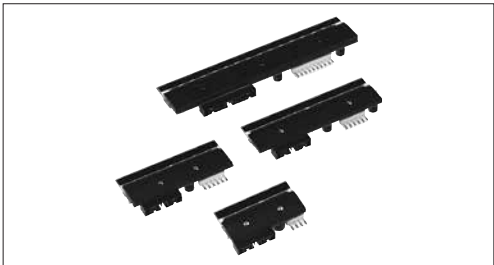
■应用

适用于室外使用和连续出票的售票机和标签打印机、食品测量仪等。

物流、票券、测量仪用系列												
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (V _{cc})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-TQFW00A	203	56	448	550	20	250	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-TQFW00A		80	640									
KD2004-TQFW00A		104	832									
KD2006-TQFW00A		168	1,344									
KD3002-TQFW00A	300	54.2	640	850		400						
KD3003-TQFW00A		81.3	960									
KD3004-TQFW00A		108.4	1,280									
KD3006-TQFW00A		162.6	1,920									
TE3004-TP1W00A		105.706	1,248	570								

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

物流、高速标签用系列(带热记录控制)



■特性

适用于需要高打印品质的工业设备用条形码打印机等。该系列可通过发热记录控制各发热体的发热时间。

■应用

适用于需要进行 24 小时工作和长时间连续打印的工厂装配流水线和物流中心等的条形码打印机。

物流、高速标签用系列(带热记录控制)																			
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (V _{cc})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)							
KD2002-RQFW00A	203	56	448	550	20	300	24	3.13 to 5.25	Wire Cable	YES	150	100							
KD2003-RQFW00A		80	640																
KD2004-RQFW00A		104	832																
KD2006-RQFW00A		168	1,344																
KD3002-RQFW00A	300	54.2	640	850															
KD3003-RQFW00A		81.3	960																
KD3004-RQFW00A		108.4	1,280																
KD3006-RQFW00A		162.6	1,920																

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

日期代码打印机用系列



- 特性

该热敏打印头即使使用难以高速打印、耐刮擦性优异的树脂色带，也能进行超高速打印并得到高品质画质。
- 应用

应用于物流管理和无人收银中使用的电子标签、环保型包装材料和复杂的物流管理所需要的日期代码信息等，有助于提高食品加工现场和物流现场的生产效率。

日期代码打印机用系列										
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (Vcc)	Connector type	Heat sink
TH3001-2P1W00A	305	31.987	384	570	50	1,000	24	3.13 to 5.25	Wire Cable	YES
TH3002-2P1W00A		53.312	640							

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

品名索引

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
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1SS380VM	215	2SB1690K	161	2SCR553P	167	BA15DD0T	31	BA4580Y	18
1SS390SM	216	2SB1694	161	2SCR553P5	167	BA15DD0W	31	BA4584	18
1SS400CM	215	2SB1695	165	2SCR553R	165	BA15JC5T	33	BA4584R	18
1SS400SM	215	2SB1695K	161	2SCR554P	167	BA17805 (BA7805)	30	BA4584Y	18
2SA1036K	161	2SB1697	167	2SCR554P5	167	BA17806 (BA7806)	30	BA50BC0	33
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2SA1576U3	161	2SB1707	165	2SCR563F3	167	BA17809 (BA7809)	30	BA50DD0W	31
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2SAR340P	167	2SC4081U3	161	2SD1757K	161	BA178M18 (BA78M18)	30	BA82903Y	20
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SML-D13VW (A)	244	SML012ENT	245	TH3001-2P1W00A	277	UMZC6.8NFM	211	VS6V0UA1LAM	213
SML-D13WW (A)	244	SML013BNT	245	TH3002-2P1W00A	277	UMZU6.2NFM	211	VS6V3UC1QS	213
SML-D13Y2W	244	SML522BUNW	247	TLR2376Y	19	US5U1	148	VS7V0UA1LAM	213
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SML-D14DW (A)	244	SML813BNT	246	TLR341	17	US5U30	148	VS8V0UA1LAM	213
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SML-D14U2W (A)	244	SMLA12ENT	246	TLR344	17	US6J11	146	VS9V0UD1HS	213
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SML-D15U2W	244	SMLD12WBN1W	244	UCR10	233	US6M11	146		
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SML-E12P8W	244	SMLP14ECNW	244	UM6K34N	145	USB 500U	271		

罗姆的销售网点



日本

20: Kyoto Business Center

ROHM Kyoto Ekimae Building, 579-32 Higashi Shiokoji-cho, Karasuma Nishi-iru, Shiokoji-dori, Shimogyo-ku, Kyoto 600-8216 Japan
TEL: +81-75-365-1077 FAX: +81-75-365-1080

Kyoto Business Center (European and US customer contacts)

ROHM Kyoto Ekimae Building, 579-32 Higashi Shiokoji-cho, Karasuma Nishi-iru, Shiokoji-dori, Shimogyo-ku, Kyoto 600-8216 Japan
TEL: (075) 365-1236 FAX: (075) 365-1237

21: Yokohama Business Center

2-4-8, Shinyokohama, Kohoku-ku, Yokohama 222-8575 Japan
TEL: +81-45- 476-2121 FAX: +81-45- 476-2295

22: Tokyo Business Center

6F Marunouchi Kitaguchi Building, 1-6-5, Marunouchi, Chiyoda-ku, Tokyo 100-0005 Japan
TEL: +81-3-6636-4590 FAX: +81-3-3201-5650

23: Nagoya Business Center

4F Nagoya Mitsui Building New Building, 1-24-20, Meieki Minami, Nakamura-ku, Nagoya 450-0003 Japan
TEL: +81-52-589-9027 FAX: +81-52-589-9014

亚洲

9: Korea/ROHM Semiconductor Korea Corporation
159-13, Gasan Digital 1-ro, Geumcheon-gu, Seoul, 08506 Korea
TEL: +82-2-8182-700 FAX: +82-2-8182-715

10: ROHM Semiconductor (Beijing) Co., Ltd.
08, 09B Room, 5F, Tower 3, China Central Place Office Building, NO.77, Jianguo Road, Chaoyang District, Beijing 100025 China
TEL: +86-10-8525-2483 FAX: +86-10-8525-2489

11: Shanghai/ROHM Semiconductor (Shanghai) Co., Ltd.
22F, CENTRAL TOWERS, 567 Langao Road, Shanghai 200333 China
TEL: +86-21-6072-8612 FAX: +86-21-6072-8610

12: Shenzhen/ROHM Semiconductor (Shenzhen) Co., Ltd.
3/F, Gemdale, 2007 Shen Nan Road, Futian, Shenzhen 518026 China
TEL: +86-755-8307-3008 FAX: +86-755-8307-3003-101

13: Hong Kong/ROHM Semiconductor Hong Kong Co., Ltd.
Room 1402-06 Tower 1, Silvercord, 30 Canton Road, Tsimshatsui, Kowloon, Hong Kong
TEL: +852-2740-6262 FAX: +852-2375-8971

14: Taiwan/ROHM Semiconductor Taiwan Co., Ltd.
13F-1., No.2, Sec.3, Minsheng E. Road, Zhongshan District, Taipei 10480 Taiwan
TEL: +886-2-2500-6956 FAX: +886-2-2503-2869

15: Singapore/ROHM Semiconductor Singapore Pte. Ltd.
83 Clemenceau Avenue, #05-01 UE Square, Singapore, 239920
TEL: +65-6436-5100 FAX: +65-6436-5190

16: Philippines/ROHM Semiconductor Philippines Corporation
Unit 4B Frabelle Alabang Building 1100 Madrigal Business Park, Zapote Road Ayala Alabang, Muntinlupa City, Philippines 1780
TEL: +63-2-8807-6872 FAX: +63-2-8809-1568

17: Thailand/ROHM Semiconductor (Thailand) Co., Ltd.
11th Floor GPF Witthayu Towers A, 93/1 Wireless Road, Lumpini, Pathumwan, Bangkok 10330 Thailand
TEL: +66-2-254-4890 FAX: +66-2-256-6334

18: Malaysia/ROHM Semiconductor Malaysia Sdn. Bhd.
L12-01-02, Level 12, PJX-HM Shah Tower, NO16A, Persiaran Barat, 46050, Petaling Jaya, Selangor, Malaysia
TEL: +60-3-7931-8155 FAX: +60-3-7931-8955

19: India/ROHM Semiconductor India Pvt. Ltd.
Unit 4B&5, Level-2, Bagmane Laurel, Block B, Bagmane Tech Park, C.V.Raman Nagar, Byrasandra, Bangalore-560093, India
TEL: +91-80-4125-0811 FAX: +91-80-4125-0813



北美

1: Santa Clara/ROHM Semiconductor U.S.A., LLC
2323 Owen Street, Santa Clara, CA 95054 U.S.A.
TEL: +1-408-720-1900 FAX: +1-408-720-1918

2: San Diego/ROHM Semiconductor U.S.A., LLC
6020 Cornerstone Court West, Suite 320, San Diego, CA 92121 U.S.A.
TEL: +1-858-625-3600 FAX: +1-858-625-3640

3: Detroit/ROHM Semiconductor U.S.A., LLC
27000 Meadowbrook Road, Suite 211, Novi, MI 48377 U.S.A.
TEL: +1-248-348-9920

4: Boston/ROHM Semiconductor U.S.A., LLC
17 New England Executive Park, Suite 100, Burlington, MA 01803 U.S.A.
TEL: +1-781-565-1138 FAX: +1-781-565-1139

5: Santa Clara/LAPIS Semiconductor America, Inc.
2323 Owen Street, Santa Clara, CA 95054 U.S.A.
TEL: +1-408-720-6223 FAX: +1-408-720-1921

欧洲

6: Germany/ROHM Semiconductor GmbH
Karl-Arnold-Strasse 15, 47877 Willich Germany
TEL: +49-2154-921-0 FAX: +49-2154-921-400

7: France/ROHM Semiconductor GmbH
Carré Vélizy Second Floor, 16-18 Avenue Morane Saulnier,
78140 Velizy-Villacoublay France
TEL: +33-1 34 49 00 70

8: United Kingdom/ROHM Semiconductor GmbH
First Floor, Unit C5 3.5 Caldecotte Lake Business Park,
Coldecotte Lake Drive,
Milton Keynes MK7 8LF, UK
TEL: +44-1-908-272400 FAX: +44-1-908-630 011



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罗姆半导体集团

日本京都市右京区西院沟崎町21号 邮编:615-8585

TEL:+81-75-311-2121 FAX:+81-75-315-0172

<https://www.rohm.com.cn>

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