


LED Chip LEDs
NEW <High-brightness / High heat-radiation White LED>
 PSML2 package (4.0x2.0mm, t=0.6mm)
 • World's highest brightness is realized

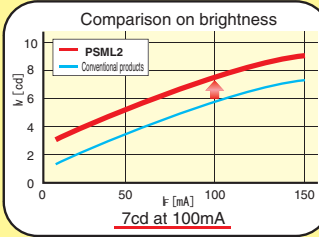


PSML2

*at middle current level(50 to 150mA) (September 2007 ROHM study.)

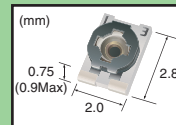
For LCD Back Light

Comparison on brightness



R Chip Trimmer Potentiometers
 MVR21IXBRN

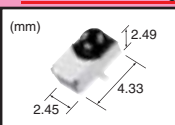
• Ultra thin structure=0.75mm
 • Thinner, yet easy to handle(specialized screw driver unnecessary).
 • Stopper-attached models are also available in lineup.
 • Protect a circuit from sudden resistance fluctuation. → High reliability.



For Laser Pickup Circuit For LCD Back Light

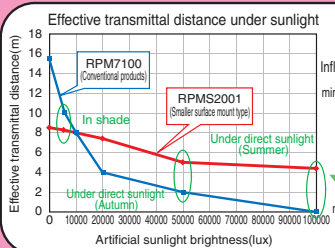
RM Remote Control Receiver Modules
NEW RPMS2001-H19 series

• The smallest mounting space. (ROHM survey)
 • Outstanding optics design to minimize influence from sunlight noise.



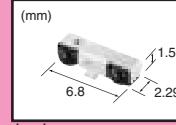
For Interface

Effective transmittal distance under sunlight



RM IrDA Infrared Communication Modules
NEW RPM973-H11

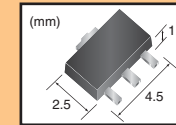
• The world's smallest Package.(ROHM survey)
 • Equipped with remote control transmission function.
 • High speed(4Mbps) data sending compliant with IrSimple standard.



For Interface

Tr Bipolar Transistors
 2SB1132 (V_{CE0}=-32V, I_C=-1A)
 2SD1664 (V_{CE0}= 32V, I_C= 1A)


• Best suited for laser diode drive circuit.



For Laser Pickup Circuit

LD Dual Wave Low Power Lasers
Under development RLD2WMMNL1

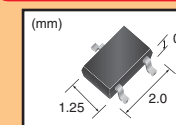
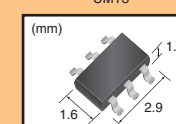
• Stable and low current drive is achieved at high temperature.



For Laser Pickup Circuit

Tr Digital Transistors
 DTC614TU (V_{CC}=20V, I_O=0.6A, R₁=10k? / R₂=None, UMT3)
 DTC623TU (V_{CC}=20V, I_O=0.6A, R₁=2.2k? / R₂=None, UMT3)
 DTC643TU (V_{CC}=20V, I_O=0.6A, R₁=4.7k? / R₂=None, UMT3)
 IMH23 (DTC643T□x2, SMT6: Dual)

• Low Ron(50% of existing one), high GI (5 times of existing one) and high V_{BE}(5V→12V)
 The excellent muting characteristics bring about clear sound of the sets.

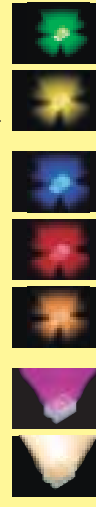



For Audio Circuit

LED Chip LEDs
 <High brightness chip LED>
 SML-512(A) series (1.6x0.8mm, t=0.55mm)
 SML-212(A) series (2.0x1.25mm, t=0.8mm)
 • compatible with strict spec. demand for automotive use.

<Low Power Consumption type Chip LED>
 SML512BC5T (1.6x0.8mm, t=0.55mm)
 SML-311 series (1.6x0.8mm, t=0.8mm)
 SML-211 series (2.0x1.25mm, t=0.8mm)
 • Low power consumption type.

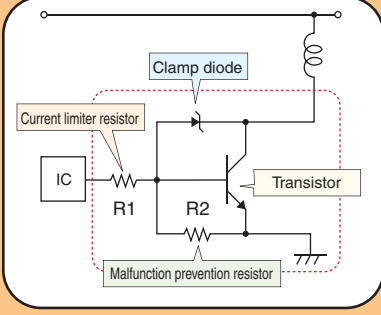
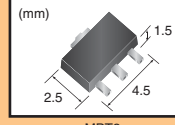
<Reflector attached chip LED>
Under development SML-M10 series (2.0x1.25mm, t=0.8mm) (1.6x0.8mm, t=0.5mm)
 • 1.5times brighter in the industry's smallest package than the standard devices in the current market. Various color gradation lineup meets the customized image colors.



For Indicator

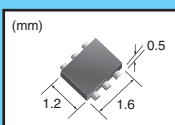
Tr Digital Transistors
 DTDG14GP (V_{CC}=60±10V, I_O=1A, R₁=None / R₂=10k)
 DTDG23YP (V_{CC}=60±10V, I_O=1A, R₁=2.2k / R₂=10k)

• Zener Diode for clamping, resistors and transistors are all in one package, contributing to mounting space saving.
 40% down of its mounting area.

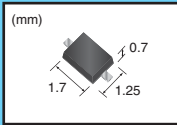
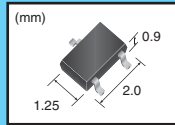
For FAN Motor

Di Low Capacitance Bi-Directional Zener Diodes
 RSB12JS2 (V_Z=9.6 to 14.4V)
 • Low Ct (1pF)
 • 2 dies in one package for space saving.
 Best suited for protection of ultra-high speed data transmission line.



For Interface

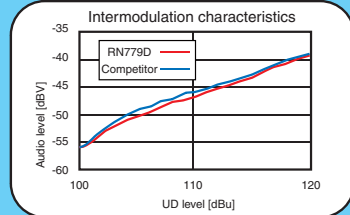
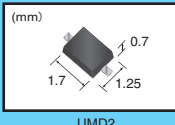
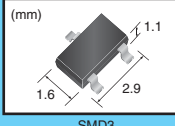
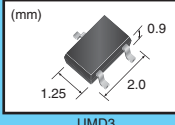
Di Bi-Directional Zener Diodes
 RSB16V (V_Z=14.4 to 17.6V)
 RSB18V (V_Z=16.2 to 19.8V)
 RSB27V (V_Z=26.2 to 32.0V)
 RSB16F2(V_Z=14.4 to 17.6V)
 RSB18F2(V_Z=16.2 to 19.8V)
 RSB27F2(V_Z=26.2 to 32.0V)
 • Both + and - surge absorption with one chip Bi-Directional Zener Diodes.
 • Best suited for CAN/LIN/Bus surge protection.

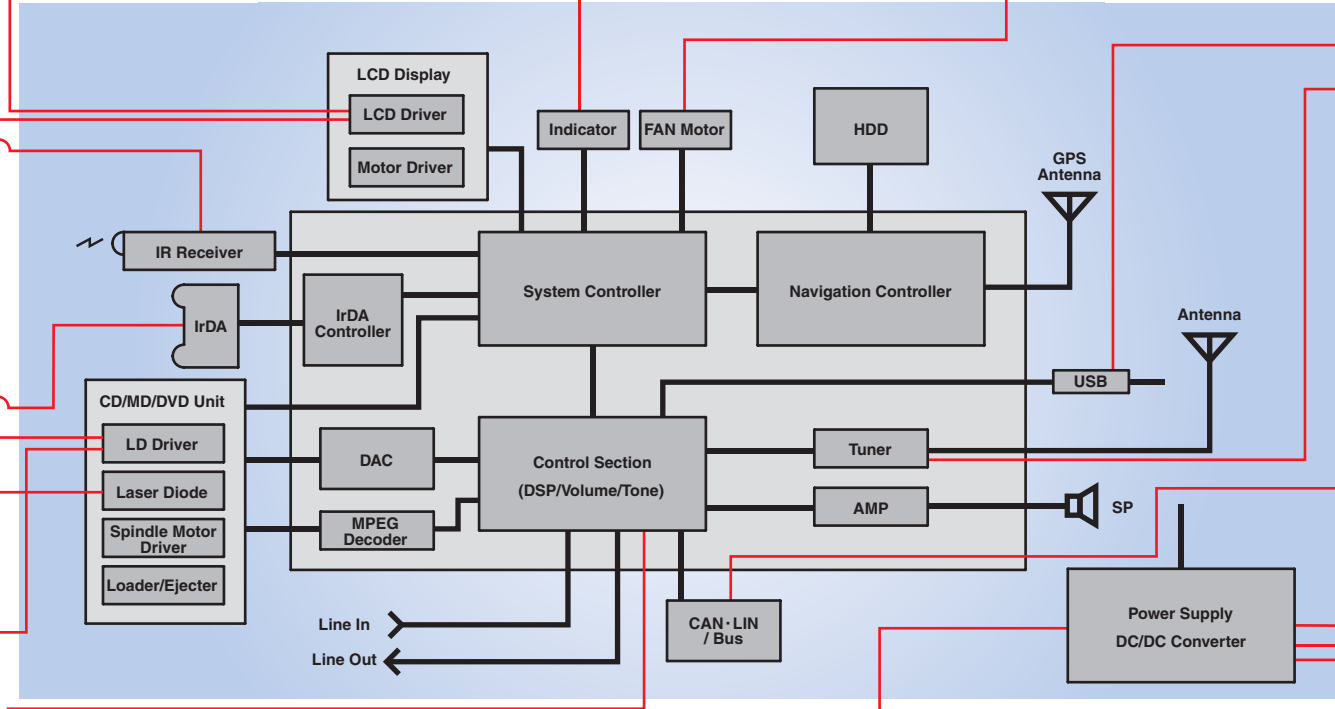
For Interface

Di PIN Diodes
 RN771V (Ct=0.9pF Max. / rF=7 Max., UMD2)
 RN779D (Ct=0.9pF Max. / rF=7 Max., SMD3)
 RN779F (Ct=0.9pF Max. / rF=7 Max., UMD3)

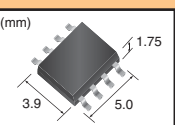
• Intermodulation characteristics and low distortions are suitable for circuit of AM frequency.

For Tuner

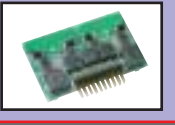


Tr MOSFETS
NEW RRS070N03 (V_{DSS}=30V, I_D=7A)
NEW SP8K63 (V_{DSS}=30V, I_D=7A)
NEW SP8K64 (V_{DSS}=30V, I_D=9A)
 • Low R_{DS(on)}, Low Q_g
 Best suited for DC/DC converter's switching circuit.



For Power Supply Circuit

RM DC/DC Converters
 ✳ for spec. customization
 Any client's needs can be met with customized products comprising ROHM in-house devices.





For Power Supply Circuit

Tc Tantalum Capacitors
 <Highly Conductive Polymer Type> TCTO / TCO series
 AL case(3216-12 [1206] size) 100µF Max.
 P case (2012-12 [0805] size) 10µF Max.
 A case (3216-18 [1206] size) 47µF Max.
 B case (3528-21 [1411] size) 150µF Max.
 • ESR drastically reduced due to highly conductive polymer employed for cathode, which significantly lowers the risk of smoke and flame.
 • TCTO series are ideal for downsizing of sets due to wide capacitance range up to 100µF with 1.2mm max. low profile.

<Open Function Structure Built in Type> TCFG series
 P case (2012-12 [0805] size) 22µF Max.
 A case (3216-18 [1206] size) 47µF Max.
 B case (3528-21 [1411] size) 220µF Max.
 C case (6032-27 [2412] size) *220µF Max.
 D case (7343-30 [2917] size) *330µF Max.
 • Built-in open (fusing) structure shuts off the current by thermal meltdown materials when the devices get overheated, reducing the risk of smoke and flame dramatically.

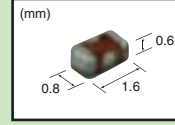
<Bottom surface electrode Tantalum capacitors> TCT series
 M case (1608-09 [0603] size) 47µF Max.
 P case (2012-12 [0805] size) *220µF Max.
 AS case(3216-10 [1206] size) *220µF Max.
 AL case(3216-12 [1206] size) *330µF Max.
 CL case(6032-15 [2412] size) *470µF Max.
 • The underside electrode configuration allows 2-times higher capacitance than conventional products.

For noise filtering for DC/DC converter, decoupling for power supply line for IC.

Em Three-terminal EMI Filters
NEW MCF18 series (1608[0603] size)

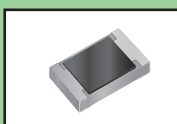
• Lineup in 1608[0603] size withstanding 4A rated current.
 • Internal resistance very low as 10 to 20mΩ.



For Noise filtering for DC/DC converter, IC power supply line and signal line.

R Anti-surge Chip Resistors
 ESR18 (3216 [1206] size)
 ESR10 (2012 [0805] size)
NEW ESR03 (1608 [0603] size)

• Higher power for its size, space saving solution(one size down).
 • 3kV anti-surge protection guaranteed.





R Ultra-Low Ohmic Chip Resistance for Current Detection
 PMR100 series (6432 [2512] size)
 PMR50 series (5025 [2010] size)
 PMR25 series (3225 [1210] size)
 PMR18 series (3216 [1206] size)
 PMR10 series (2012 [0805] size)
NEW PMR03 series (1608 [0603] size)

• Low TCR
 • High power by employment of metal type resistive element.

Under development UCR18 series (3216 [1206] size)
Under development UCR10 series (2012 [0805] size)

• High power 0.33W in 2012 size.
 • Drastic reduction in power loss by low resistance from minimum 10mΩ.
 Highly reliable for employing the same manufacturing process as conventional products(MCR).

For Power Supply Circuit