

T MOSFETs

NEW RRS130N03 (30V / 13A / SOP8 : 4V drive)
NEW RRS090N03 (30V / 9A / SOP8 : 4V drive)
NEW SP8K64 (30V / 9A / SOP8 : Dual, 4V drive)
NEW RRS090P03 (-30V / -9A / SOP8 : 4V drive)
NEW RRS075P03 (-30V / -7.5A / SOP8 : 4V drive)
NEW SP8J65 (-30V / -7A / SOP8 : Dual, 4V drive)

Low voltage MOSFET roadmap

NEW MP6K61 (30V / 5A / MPT6 : Dual, 4V drive)
NEW MP6K62 (30V / 6A / MPT6 : Dual, 4V drive)
NEW MP6K65 (30V / 3.5A / MPT6 : Dual, 4V drive)

Package outline comparison

Package power comparison

Di Schottky Barrier Diodes

RSX101VA-30 (30V / 1A / TUMD2)
 RSX101M-30 (30V / 1A / PMDU)
 RSX301LA-30 (30V / 3A / PMDT)
 RSX301L-30 (30V / 3A / PMDS)

- Low Vf & Low Ir
- High breakdown resistance & high efficiency by ROHM's original technologies.

R Ultra-low ohmic resistance chip resistors for current detection

PMR03 series (1608 [0603] size)
NEW PMR10 series (2012 [0805] size)
NEW PMR18 series (3216 [1206] size)
 PMR25 series (3225 [1210] size)
 PMR50 series (5025 [2010] size)
 PMR100 series (6432 [2512] size)

- High-power 2W is guaranteed for 6432 [2512] size package.
- High-resistance to thermal stress.

Overcurrent Detection Circuit

Tc Tantalum Capacitors

<Conductive Polymer type>
 TCTO series

- AL case(3216-12 [1206] low-profile type) 100µF Max.

TCS series

- P case(2012-12 [0805] size) 15µF Max.
- A case(3216-12 [1206] size) 68µF Max.
- B case(3528-21 [1411] size) 330µF Max. (*including under-development)

- Low ESR achieved by change of cathode materials.
- Combustibility significantly lowered.

Inner structure

ESR frequency characteristics

Em Three-terminal EMI Filters

MCF18 series (1608 [0603] size)

- 4A rated current for 1608 [0603] package
- Ultra-low internal resistance (10mΩ to 20mΩ)

LED Chip LEDs, Through-hole LEDs

<EXCELED™>
 SML-A1 series (1.6x1.15mm, t=0.55mm / Side-view)
 SML-E1 series (1.6x0.8mm, t=0.36mm)
 SLI-343 series (3mm)

- Long-life, high luminous intensity by 4-element (AlGaInP) die.

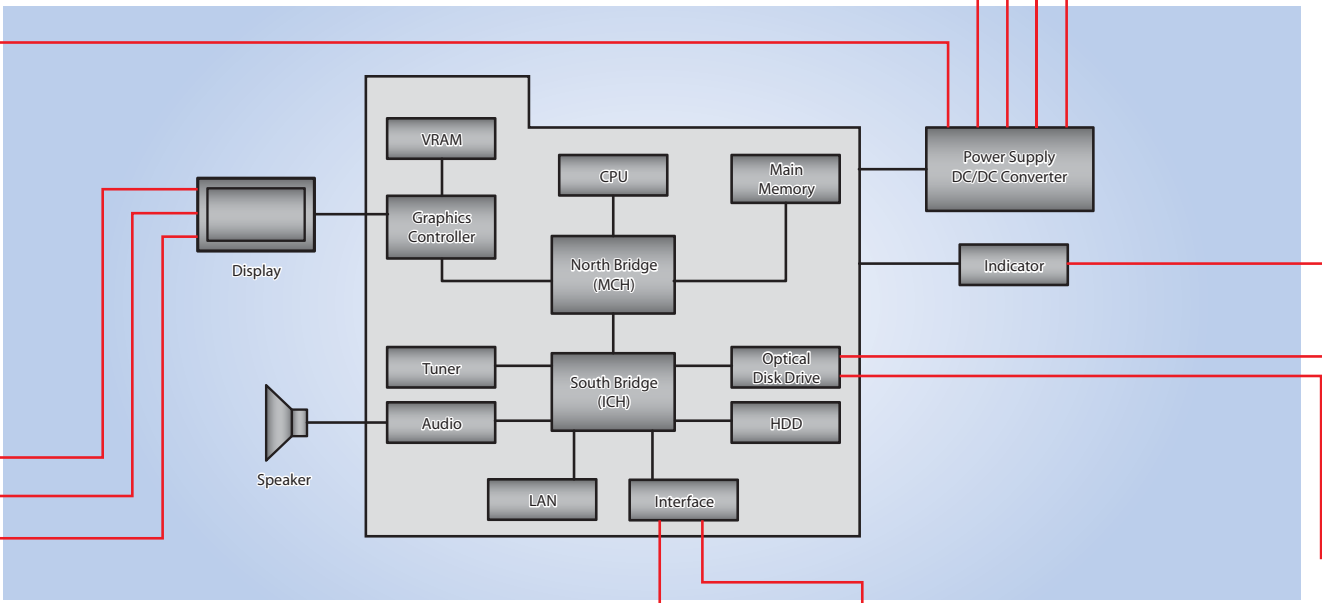
LED Chip LEDs

<High brightness / High radiation White LED>
 SMLK15WBF (PSML2 package) (4.0x2.0mm, t=0.6mm)

- World's top-class luminous intensity* is achieved.

Luminosity Comparison

*in middle current (50 to 150mA) range.



LD Laser Diodes

<Dual-wavelength Laser Diodes>
 RLD2WMGZ4 (10mW / 655nm, 240mW (pulse) / 782nm, high-radiation frame)
Under development RLD2WMGU1 (300mW(pulse) / 662nm, 350mW(pulse) / 782nm, high-radiation frame)

- CD, DVD high-speed recording & playing

R Chip Trimmer Potentiometers

MVR21IXBRN

- Ultra-slim : 0.75mm
- Resistance-set groove adjustable by commercial screw driver.
- "Adjustment Stopper" built-in type also available to protect the circuit by avoiding sudden resistance change → High reliability.

T MOSFETs

<ECOMOS™ series>

NEW RQ1A070ZP (-12V / -7A / TSMT8 : 1.5V drive)
NEW QS8J1 (-12V / -4.5A / TSMT8 : Dual, 1.5V drive)

RHU002N06 (60V / 0.2A / UMT3 : 4V drive)
 UM6K1N (30V / 0.1A / UMT6 : 4V drive)
 RK7002 (60V / 0.115A / SST3 : 4V drive)

Di Low Capacitance Zener Diodes

RSB12J52 (Vz=9.6 to 14.4V / Ct=1pF / EMD6)
 RSB12W (Vz=9.6 to 14.4V / Ct=1pF / EMD3)
 RSB12Z (Vz=9.6 to 14.4V / Ct=1pF / VMD3)
 EDZC6.8B (Vz=6.65 to 6.93V / Ct=3pF / EMD2)
 UMZC6.8N (Vz=6.47 to 7.14V / Ct=3pF / UMD3)

- Low capacitance based on ROHM's original technology.

S Transmission type Photointerrupters

RPI-0126 (2.8x1.8mm, t=2.0mm)

- Greater detection groove width in spite of small package / Gap width : 1.2mm

RPI-0226 (4.4x2.7mm, t=2.95mm)

- 2mm-gap for surface-mounting.
- Positioning function built-in.
- High-reliability dual-mold housing.

S Ambient Illumination Photometer

RPM-075PT

- A phototransistor as detector of ambient illumination for purpose of monitor visibility control and energy-saving (such as automatic shut-off / stand-by).
- Compact size / light weight (3mg).

R Anti-surge Chip Resistors

ESR03 series (1608 [0603] size)
 ESR10 series (2012 [0805] size)
 ESR18 series (3216 [1206] size)
 ESR25 series (3225 [1210] size)

- One size smaller package can be offered to the customers thanks to higher package power.
- Surge-resistance of 3kV is guaranteed.