
Excellence in Electronics

ROHM

NEWS

Newsletter 07-08/2008

Dear Customer,

welcome to the July/August 2008 issue of Rohm's Email Newsletter. If you want to change your contact details or if you do not want to receive the Newsletter anymore please use the link at the end of this page.

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Using ROHM ECO Devices saves energy and reduces CO2 generation

At ROHM we are committed to saving energy by reducing the power consumption of equipment. This starts at the component level - the basic building blocks of all circuits. ROHM, the leading manufacturer of electronic components in the world, offers energy-saving ICs that utilize high efficiency circuitry and PWM format for low power consumption - during normal operation as well as standby.

ROHM also develops a wide variety of components, both active and passive, such as low ON-resistance, Low voltage MOSFETs, Low-saturation Bipolar Transistors, Schottky Barrier Diodes featuring low VF and low IR, Ultra-high-speed Fast Recovery Diodes and a full lineup of Chip Resistors, including Ultra-low-ohmic Resistors for current detection.

The complete ECO Devices brochure is available under following link:

[More Information on www.rohmeurope.com](http://www.rohmeurope.com)



Bipolar Stepping Motor Driver

ROHM has recently completed the development several new Stepping Motor Drivers featuring low power consumption for high-efficiency motor driving. They are ideally suited for a wide variety of applications, including industrial equipment, PC peripheral devices, office (OA) equipment, and home electrical appliances. The complete line-up can be seen from the table below.

Samples and evaluation boards are available on request.

Features

- Full Line-up, High Performance, High Reliability
- Bipolar PWM constant-current drive
- Small & Thin Power Package
- Power DMOS technology
- Single Power Supply
 - No logic power supply needed, few external components required (no bypass capacitor needed)
 - Simplifies power-up/down sequence
 - Simplifies PCB layout and routing
- Ghost Supply Prevention (G.S.P.)
 - Prevents malfunctions in motor driver IC or any other IC on the same Vcc line
 - Simplifies power-up/down sequence
- Linearly variable fast/slow decay ration
- OCP - Over-Current Protection
- No Charge Pump Required
 - Less external components (eliminates 2+ high- voltage electrolytic caps)
 - High failure resistance
 - Reduced EMI
- High ESD Resistance (HBM/MM = 4000 V / 400V)



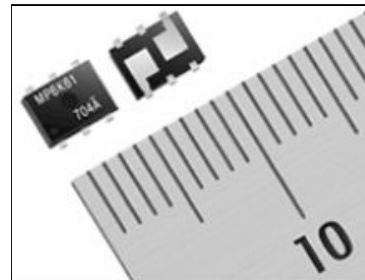
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New Dual Element package: MPT6

ROHM's newly developed MPT6 package is 40% thinner (1.0mm) and features a 40% smaller mounting area than the standard SOP8 package, increasing design freedom while contributing to greater miniaturization. In addition, utilization of a new low ON-resistance element results in the same ON-resistance as the SOP8 dual type in a more compact form factor.

Features

1. ROHM original compact high power package (4.5×4.0×1.0mm,PD2.0W)
2. Same package power as conventional SOP8 packages (5.0×6.0×1.75mm),but in a form factor 40% smaller and 43% thinner
3. Ideal replacement for dual-element SOP8 packages rated at ID6A or less
4. Novel manufacturing
5. New element construction utilized for low ON resistance
6. Compact, space-saving package contributes to board miniaturization



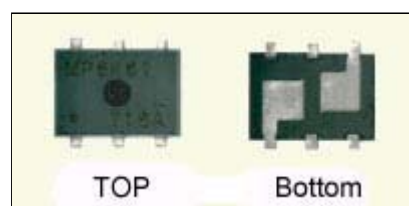
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Two bipolar transistors integrated into a single MPT6 package

ROHM offers a new transistor line-up that integrate two bipolar elements into a package the same size as current single-element products, reducing mounting area as well as the number of components. In addition, the same land pattern can be used, enabling easy replacement while freeing up board design.

Features

1. Compact high power package (4.5×4.0×1.0mm, PD=2W)
2. Simplifies replacement in existing sets



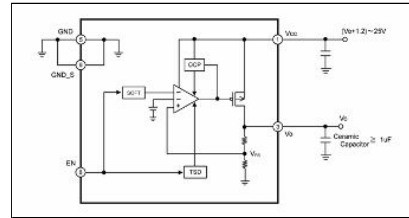
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LDO Regulator BD356xxHVN

ROHM has released a new series of LDO regulators with 100mA and 300mA of output current. The devices can handle input voltages larger than 20V. The devices offer also over current protection (=output short circuit protection), a shutdown ON/OFF input (for setting the circuit current to almost 0 μ A at shutdown mode), and thermal shutdown circuit.

Features

- 1) Output current 100mA
- 2) Output voltage accuracy : $\pm 1\%$
- 3) Built-in Over Current Protection circuit (OCP)
- 4) Built-in Thermal Shut Down circuit (TSD)
- 5) With shut down switch
- 6) Rich package line-up under development: HVSO6, HSON8 and SOP8



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