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Excellence in Electronics

**ROHM**

NEWS

Newsletter 05/2008

Dear Customer,

welcome to the May 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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#### Ultra-compact Multi Diode Package PIN diodes

With the miniaturization of portable devices comes the need for increasingly smaller, thinner components. In response to this ROHM has integrated multiple diodes into a single package utilizing advanced device processes and ultra-precise manufacturing technologies. The HMD8 series features 8 pins and 4 elements, while the HMD12 incorporates 6 elements in a 12-pin package. Both the internal configuration, including the diode type, and external pin layout are customizable, making them ideal for compact applications of all types.

#### Features:

- Ultra-precise technologies and proprietary device processes utilized to integrate multiple diodes into a single chip. (RN142ZS5A: 4 chips max., RN142ZS12A: 6 chips max.)
- 47% smaller surface area, 20% thinner than conventional single chip/single package diodes:
- Environmentally friendly halogen-free resin used
- Flexible pattern layout



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

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#### Embedded Ideas

ROHM presents new brochure "Embedded ideas 2008.01" providing a compact overview about new product developments.

#### New Products

- Three-phase sensorless fan motor driver
- 2-inch image sensor head
- Bidirectional Zener diodes
- Ultra-compact LEDs with reflector
- AC/DC converter with built-in zero cross signal circuit



- Ultra-low ohmic chip resistors for current detection
- Charge protection IC
- Multifunction full-color LED driver
- Multi-lamp white LED driver
- Thermal printheads for high-speed graphics printing
- MP3/WMA decoder
- Thin, high-power MOSFET
- Surge resistance chip resistors
- Underside electrode tantalum capacitors
- Hall effect sensor IC for sending alternating magnetic fields
- HDMI buffer IC
- Transistors with built-in Zener diodes and resistor

**Technical Article:**

- **Resistor Technology** "High Technology" article in Dempa Shimbun, December 6, 2007 issue
- **Real-time Image Correction ICs with AIE Technology for Automotive** "Automotive Electronics" article in EDN JAPAN (Separate Volume), December 27, 2007 issue

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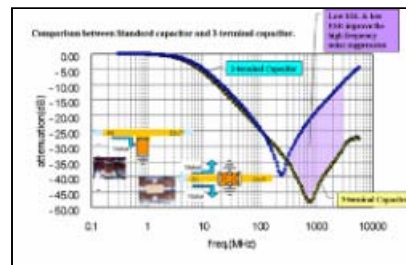
**MCF18-series 3-Terminal EMI Filter improve noise suppression and save cost:**

ROHM expands the line-up of the new "MCF18-series" (0603 inch size) SMD 3-terminal-filter capacitors that ranged from 10pF (50V) up to 47nF (25V), now up to 1.0 uF (6.3V).

Our 3-terminal EMI filter have become especially popular to eliminate noise from the power supply lines or on signal lines in devices such as Mobile Phones, PDA, Portable Media Players, Flat Panel TVs, Digital Still Cameras, Set Top Boxes, DVD Player, DVD recorder, Car Navigation, LCD projector, Car Air-conditioner, Photo-Copiers, etc.

Compared to traditional LC Filters, chip ferrite beads or 2-terminal capacitors the ROHM 3-terminal EMI filter provides a stronger noise attenuation, whilst integrating several components into one. This helps to save space and total cost at the same time.

All MCF18-series EMI Filters are rated for currents of 4A, a new bench mark in industry.



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