



Newsletter 03/2010

Dear Customer,

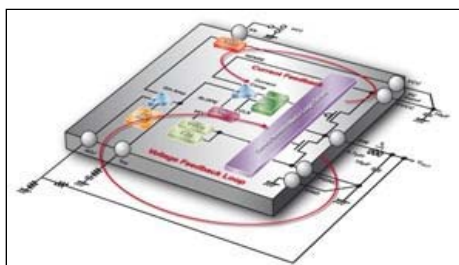
welcome to the March 2010 issue of ROHM's Email Newsletter. If you want to change your contact details or if you do not want to receive the Newsletter anymore please use the link at the end of this page.

BD91xx Series: Current Mode Step-Down Switching Regulator

Beginning of 2009 ROHM Semiconductor introduced the BD91x Series of step-down switching regulators that combine ROHM's propriety SLLM™ (Simple Light Load Mode) technology with current-mode PWM control to provide exceptional load regulation and high efficiency at both low- and high-current load conditions.

The SLLM technique enables BD91x series regulators to seamlessly transfer to / from conventional PWM control depending on load conditions. This dual mode of operation improves the efficiency by 100% to 200% over standard PWM controllers that typically ignore the low-power operating regime. In addition, current mode feedback assures fast response to load changes and prevents operational performance problems in voltage-sensitive devices.

During the last year many new derivatives of this family came into the market and completed the product portfolio of high efficient switching regulators. Next steps are the introduction of a higher switching frequency to have a better EMI behaviour and the increase of the supply voltage range down to an input of 2.3 V.



Some of the key features are:

- * Single, dual and triple channel output
- * Input voltage up to 13.2 V (BD9141)
- * Output current ratings up to 4.0A (BD9137)
- * Fixed and variable output voltage

(set by resistor selection)

* Output voltage accuracy of ± 1.5 or $\pm 2.0\%$

* Standard switching frequency is 1 MHz
(BD9180/BD9192: 2MHz)

* High efficiency due to SLLM™ technology

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

Serial EEPROMs for Automotive Systems

ROHM Ultra-High Reliability Serial EEPROMs

ROHM Semiconductor automotive-grade serial EEPROMs guarantee stable operation at temperatures up to 125°C. Multiple protection circuits, combined with double reset functionality, unique double cell construction, gold pad-gold wire connections and high ESD resistance, provide unsurpassed reliability.

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



Resistors and EMI Filter - New Catalog 2010

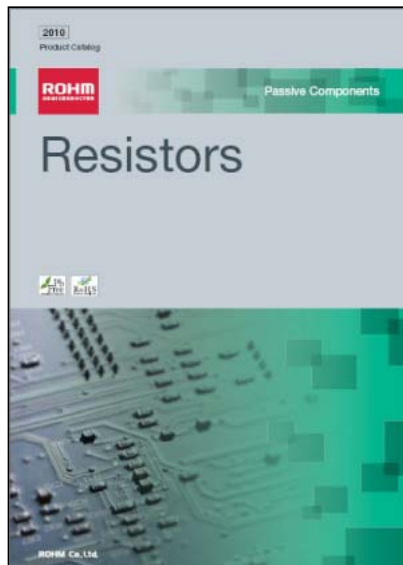
Resistors

ROHM, the pioneer in chip resistors, offers a broad lineup, ranging from the ultra-compact MCR004 series units and the high reliability surge-resistant ESR series to high voltage resistance models (KTR series) and products optimized for current detection (PMR series). Select the ideal solution to fit set requirements.

EMI Filter

ROHM 1608-sized 3-terminal EMI Filter are available in a number of capacitances and are specifically designed for removal of onboard differential mode noise over a wide range of frequencies.

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



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