



Newsletter 09/2009

Dear Customer,

welcome to the September 2009 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.

ROHM Announces CMOS LDO Regulators with Automatic Power-Saving Function

ROHM Semiconductor has introduced a new series of CMOS LDO regulators featuring ROHM's proprietary automatic power-saving (APS) function that dynamically switches performance characteristics based on operating conditions. The BHxxPB1 Series combines the benefits of LDOs - small packaging, minimal external components and simple design process - with very low average power consumption. During high-speed operation, with operating current of 20 μA , the output voltage is regulated to $\pm 1\%$ over step load changes. In the power-save mode, the operating current is reduced to 2 μA . These devices are particularly useful in portable applications such as cell phones where lower average current consumption can aid in extending battery life.

Key advantages of the ROHM BHxxPB1 Series include:

- * A low-voltage reference source to enable stable operation from 1.7 V inputs
- * Integrated output discharge function that eliminates external blocking diodes required to prevent reverse-voltage damage
- * Integrated inrush current protection to assure output stability without need for added external components
- * HVSO5 package requiring 70% less

mounting area than standard SOT23-5

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



MK67Q5250: A compact, stand-alone biometric authentication module

Rohm Semiconductor started the promotion of the MK67Q5250, an ultra compact stand-alone fingerprint authentication module. The MK67Q5250 combines the proven AuthenTec AES2510 fingerprint sensor with the innovative ML67Q5250 MCU, developed by Oki Semiconductor.

The ML67Q5250 is an ARM7 based MCU including embedded flash memory and an advanced hardware accelerator for biometric functions. By using these functions the module can handle tasks like fingerprint data registration, authentication, and data management without any external components. This allows easy implementation of the fingerprint authentication function into customer systems.

Key Features of the MK67Q5250:

- * Up to 45 fingerprint templates can be stored in the Flash Memory
- * Fast Authentication: 0.8s (1:1 matching); 1.8s (1:45 matching)
- * Free programmable ARM7 MCU
- * Fingerprint data protected by hardware security
- * Stand-alone functionality
- * Pre-programmed support functions like:
 - enrollment, matching, template management etc.
- * Bi-directional swipe supported
- * SPI and USB 2.0 Interface (including serial API)
- * 4 versions available (3.3V or 5V; with or without mounting holes)



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