



Newsletter 11/2009

Dear Customer,

welcome to the November 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.

BH1620FVC BH1621FVC: Ambient Light Sensor

ROHM Ambient Light Sensor(ALS) ICs are designed to detect the brightness over a wide range, from, from darkness to direct sunlight, and output the data in order to adjust LCD or Lighting brightness for optimum visibility and lower power consumption. The lineup is offered in different output types (i.e. current, comparator, digital) for maximum compatibility.

Advantages of ROHM analog ALS:

- Uniform sensitivity regardless of light source.
- Internal processing is performed on the multiple built-in photodiodes (featuring different junction depths), resulting in stable output sensitivity with little difference among variation light sources.
- Output current which is proportionate to the light
- Built-in shutdown function.
- Wide output range.
- Output gain switching via mode-setting terminal.

Advantage of new ROHM ALS, BH1620FVC and BH1621FVC:

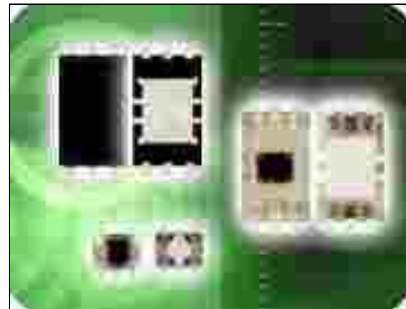
=> Ultra small WSOF5 (1.6*1.6*0.55mm) package contributes to

miniaturize the mounting space on the printed circuit board.

BH1620/21 Specification:

- Supply Voltage: 2.4 to 5.5 V.
- 1.8V logic input interface.
- Output Type: Current(Source).
- Sensitivity Variations: $\pm 15\%$.
- Illuminance Measurement: Range 0-100000 lx
- Output Sensitivity Gain: 3 or 2 step.
- Package size: 1.6×1.6×0.55 mm.

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



ML610Q4xx 8-bit microcontroller family with embedded Flash, an ultra low power ECO MCU

ROHM Semiconductor started the promotion of the ML610Q4xx microcontroller family, a series of ultra low power ECO MCUs with embedded Flash and LCD drivers.

The ML610Q4xx family of devices are 8-bit microcontrollers that incorporate 1.1V flash memory based on OKI Semiconductor's proprietary low-power technology and a sophisticated power-management function, achieving one of the lowest power consumption in the industry.

The ML610Q4xx family includes a highly efficient RISC-type CPU, LCD controller and driver, two types of A/D converters, and on-chip debugging functions. The ML610Q4xx devices operate over a wide range of voltage (from 3.6V down to 1.1V), and achieve a current consumption equivalent to MCUs with built-in mask ROM. Therefore, while keeping the advantage of flash memory MCU's short development and manufacturing time, the ML610Q4xx devices can simultaneously enable use of smaller and lighter batteries because of its low power consumption.

The ML610Q4xx devices are best suited for handheld and battery-powered products with LCDs such as watches, thermometers, bike computers or weather stations where power consumption, flexibility and time-to-market are key issues. The series also includes versions with extended temperature range to cover applications in the industrial segment.

Some of the key features are:

- * Highly efficient RISC architecture with 3-stage pipeline enabling one instruction per cycle
- * 3.6V down to 1.1V operation with embedded Flash
- * 0.5 μ A consumption in HALT mode, 0.15 μ A consumption in STOP mode
- * Integrated LCD drivers with 144 up to 1536 segments
- * Up to 64kbyte Flash/ROM, up to 4kbyte RAM
- * Rich set of Peripherals (Timers, Watchdog, Battery Level Detector) and Interfaces (ADC, UART, I²C, SSIO, PWM, Melody)
- * On-chip debug function
- * Commercial or Industrial temperature range
- * Available as die or in QFP package



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