

Excellence in Electronics

ROHM

NEWS

Newsletter 10/2008

Dear Customer,

welcome to the October 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.

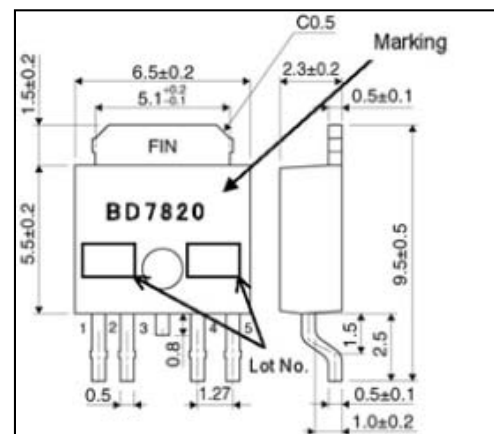
In case that you have problems to see the embedded pictures (e.g. because you do not have permanent Internet access) please select 'Offline HTML' mode from the user option menu - [click here to modify](#).

BD7820FP - Flexible 1A LDO regulator

BD7820FP is a linear LDO regulator for output currents of up to 1A. The device is manufactured in our proprietary MOS technology and offers stable operation with a small (1 μ F) and low ESR output capacitor. The output voltage is programmable via an external resistor divider down to 1V. The reference voltage has a precision of 1% while its temperature coefficient is below 100ppm.

The input voltage ranges from 2.3V to 6.0V. The device is designed as flexible secondary regulator in supply systems with a DC-DC converter as first stage. The package supports SMD production lines for large volumes due to outstandingly low mechanical tolerances.

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



High Accuracy Ambient Light Measurement with Analog and Digital Sensors

Building on the success with the advanced Ambient Light Sensors BH1600FVC and BH1700FVC ROHM has created enhanced types featuring even higher measurement accuracies.

BH1603FVC analogue output type Ambient Light Sensor comes in a 1.6 * 3.0 mm² 6-pin SMD package. The output current is highly proportional to the ambient light intensity from around 0.1lx up to and above 65000lx. This new type offers the wider supply voltage range of 2.4V....5.5V. To match the output current min-max range to the application our customers

can pre-set the integrated current amplifier in 3 levels, low, medium and high. This reduces the need for external parts to one small resistor.

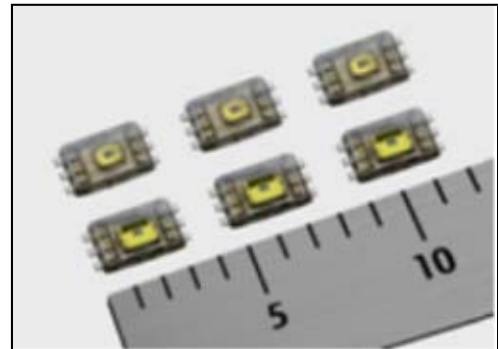
BH1715FVC digital output version comes in the same package as the analogue type. The ambient light measurement results are internally converted to digital values with a 16bit resolution and can be read out via standard or fast mode I²C bus. Measurement is possible between just 1lx and up to even 65535lx.

The BH1603FVC and BH1715FVC have a well optimized spectral responses, near to the human eyes response. Compared to most other sensors in the market, its output values are very well balanced to the light intensities of various - quite different - light sources (e.g. incandescent vs. fluorescent, etc.). The temperature and supply voltage dependencies are minimal.

In order to eliminate any need for an in-production calibration at our customers, we have now found a new method to reduce the sensitivity variation of this semiconductor sensor to a very low tolerance of +/-15% as maximum.

All these features contribute to a highly cost efficient design as well as production and provide a maximum of device performance.

Samples are available and the mass production of both parts has been launched.



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ROHM presents the next brochure Embedded ideas No. 03 with following headlines:

New Products

- * LED Drivers for LCD Backlights
- * TV Encoders with Built-in AIE
- * High Brightness LED Numerical Displays
- * High Heat Dissipation White LEDs for Illumination
- * Ultra-compact Multi-diode Packages
- * Thin, Compact Tantalum Capacitors
- * Low ON-resistance Power MOSFETs
- * CMOS LDO Regulators for Portables
- * Three-channel Programmable Clock Generators
- * I²C Bus Serial EEPROMs
- * High Precision Detection Illumination Sensor ICs
- * 7V H-bridge Drivers (Single Channel Type)
- * Thermal Printheads with Protective Ultra-low Friction Film
- * Wireless Audio Link ICs
- * 0402-size Chip Resistors
- * Optical Surface Mount Four-way Detection Sensors
- * High Voltage Resistance AC/DC Converter Modules
- * Ultra-compact Tantalum Capacitors

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