

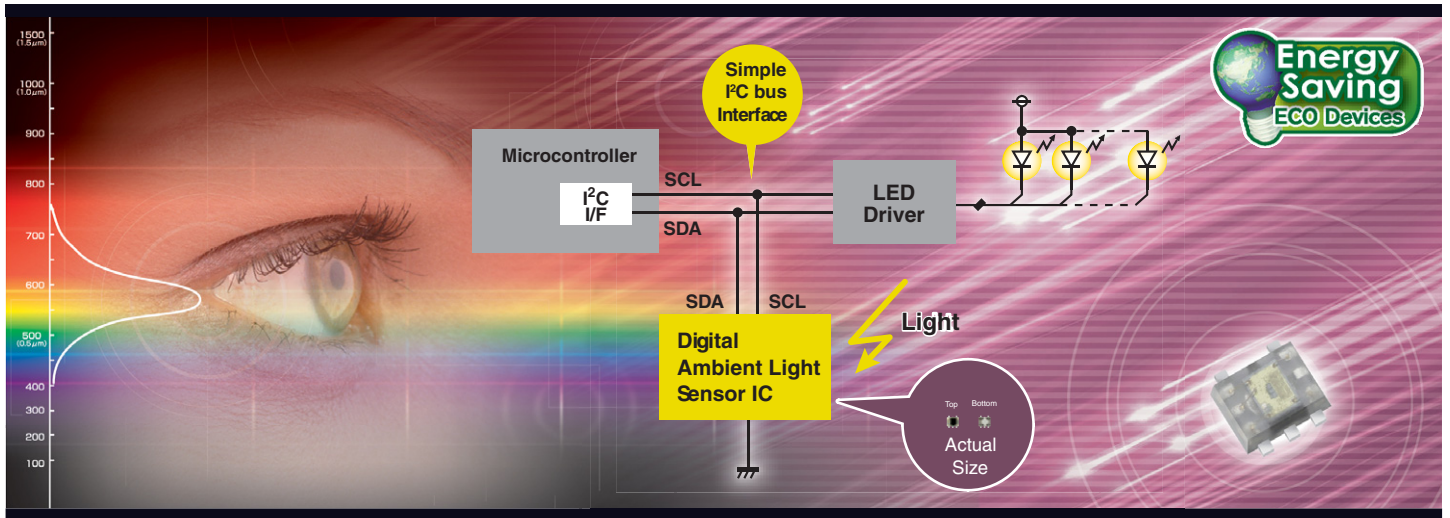


# The World's Smallest\* Ambient Light Sensor IC

\*Lead frame type (ROHM Sept. 2008 Survey)



**BH1720FVC**



## Finally - an ambient sensor for portables

**Smallest in the industry\*** \*Lead frame type (ROHM Sept. 2008 Survey)

**Dimensions** (Unit: mm)

**WSOF5**

1.6±0.05  
1.0±0.05  
0.5  
1.4  
1.2±0.05 MAX 1.28 including Burr  
0.6MAX  
0.02±0.02  
0.5  
0.22±0.05 (±0.08)

**16bit ADC + Direct Data Output**

An integrated 16bit AD converter enables a wide light measurement range, from dimly lit areas to bright outdoors, in precise 1 lux steps. In addition, direct output of the brightness value eliminates the need for microcontroller processing.

**High Precision Light Detection**

**Verify operation with ROHM's evaluation kit**

ROHM provides an evaluation kit, allowing the customer to verify operation in their specific application. The kit consists of an evaluation board and testing software. All that's required is a PC with a USB port.

**Digital Ambient Light Sensor IC Evaluation Kit**

• Lineup

Part No.	Output I/F	Supply Voltage (V)	Sensitivity (%)	I/O Voltage	Measurement Range (lx)	Operating Temp. Range (°C)	Package
<b>New</b> BH1720FVC	I <sup>2</sup> C	2.4 to 3.6	±15	1.65 to V <sub>cc</sub>	0 to 65,000	-40 to +85	Top Bottom WSOF5
BH1710FVC	I <sup>2</sup> C	2.4 to 3.6	±38	1.65 to V <sub>cc</sub>	0 to 65,000	-30 to +85	Top Bottom WSOF6
BH1715FVC	I <sup>2</sup> C	2.4 to 3.6	±15	1.65 to V <sub>cc</sub>	0 to 65,000	-40 to +85	Top Bottom WSOF6
BH1750FVI	I <sup>2</sup> C	2.4 to 3.6	±20	1.65 to V <sub>cc</sub>	0 to 65,000	-40 to +85	Top Bottom WSOF6I

Actual size shown above

Excellence in Electronics



ROHM CO., LTD.

- The data for the product described in this document are intended for reference purposes only. Please verify the specifications before usage.
- Please note that ROHM cannot bear any responsibility regarding any problems related to industrial property rights resulting from their use thereof.
- The application circuit examples, information, and various data pertaining to the use of the products presented in this document are provided for reference purposes only.

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The products listed above are designed to be used with ordinary electronic equipment or devices (i.e. audio visual equipment, office automation equipment, communications devices, electrical appliances, electronic toys). Should these products be used with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (e.g. medical instruments, transportation equipment, aerospace machinery, nuclear reactor controllers, fuel controllers and other safety devices), it is recommended that a sales representative be consulted in advance.