



## HDMI and DVI Digital Interface LSIs for Digital TVs BU16008KV

### ● Outline

The BU16008KV 3-input/1-output SW IC for digital TVs is compatible with HDMI 1.3a, integrates a DDC line buffer and HPD, and supports 5V input.

### ● Features

- 1) HDMI 1.3a compliant
- 2) Supports 2.25 Gbps signaling rate (one port)
- 3) Compatible with QXGA to 8-Bit Color Depth and 1080p resolution to 12-Bit color depth
- 4) Support for HDMI or DVI input
- 5) 5V tolerance for all DDC and HPD\_SINK inputs
- 6) Integrated DDC buffer
- 7) Built-in receiver termination
- 8) Equipped with equalizer circuit for long cable support
- 9) High impedance outputs when disabled
- 10) 10kV ESD resistance
- 11) 0.5mm pitch 80-pin package
- 12) RoHS-compliant

### ● Applications

Displays

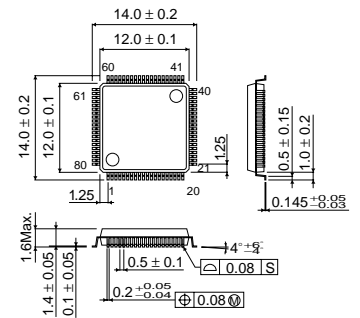
### ● Absolute Maximum Ratings

(Ta=25°C)

Parameter	Min.	Typ.	Max.	Unit	Comment
Power Supply Voltage(Vcc)	-0.3	–	4.0	V	
Power Dissipation	–	–	1200 *1	mW	
Storage Temperature Range	-55	–	125	°C	

\*1 Derated at 12mW/°C above Ta=25°C

### ● Dimensions (Unit: mm)



VQFP80

- The specifications for the product described in this document are for reference only. Upon actual use, therefore, please request that specifications to be separately delivered.
- The application circuit examples, information, and various data pertaining to the use of the products presented in this documentation are provided for reference purposes only.
- Please note that ROHM cannot bear any responsibility regarding any problems relating to industrial property rights resulting from their use thereof.

The products listed in this catalog are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).  
Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

Current specifications in effect of 1st. September 2007.

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ROHM CO., LTD.

21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto  
615-8885, Japan  
TEL: +81-75-3112121 FAX: +81-75-315-0172  
URL: http://www.rohm.com

Contact us for further information about the products.

**Seoul** TEL: +82-2-8182-700 FAX: +82-2-8182-715  
**Dalian** TEL: +86-411-8230-8549 FAX: +86-411-8230-8537  
**Beijing** TEL: +86-10-8525-2483 FAX: +86-10-8525-2489  
**Shanghai** TEL: +86-21-6279-2727 FAX: +86-21-6247-2066  
**Shenzhen** TEL: +86-755-8307-3008 FAX: +86-755-8307-3003  
**Hong Kong** TEL: +852-2-740-6262 FAX: +852-2-375-8971  
**Taipei** TEL: +886-2-2500-6956 FAX: +886-2-2503-2869  
**Singapore** TEL: +65-6332-2322 FAX: +65-6332-5862  
**Philippines** TEL: +63-2807-6872 FAX: +63-2809-1422  
**Thailand** TEL: +66-2-254-4890 FAX: +66-2-256-6334

**Malaysia** TEL: +60-3-7958-8355 FAX: +60-3-7958-8377  
**Germany** TEL: +49-2154-9210 FAX: +49-2154-921400  
**France** TEL: +33-1-5697-3060 FAX: +33-1-5697-3080  
**United Kingdom** TEL: +44-1-908-306700 FAX: +44-1-908-235788  
**San Diego** TEL: +1-858-625-3630 FAX: +1-858-625-3670  
**Atlanta** TEL: +1-770-754-5972 FAX: +1-770-754-0691  
**Dallas** TEL: +1-469-287-5366 FAX: +1-469-362-7973  
**Kyoto** TEL: +81-75-365-1218 FAX: +81-75-365-1228  
**Yokohama** TEL: +81-45-476-2290 FAX: +81-45-476-2295



