



## Glass Passivated Bridge Rectifiers

**Reverse Voltage - 50 to 1000 Volts**  
**Forward Current - 4.0 Amperes**

### Features

- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- Meet UL flammability classification 94V-0

### Mechanical Data

- Polarity: Symbol marked on body

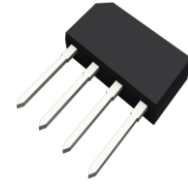
- Mounting position: Any

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

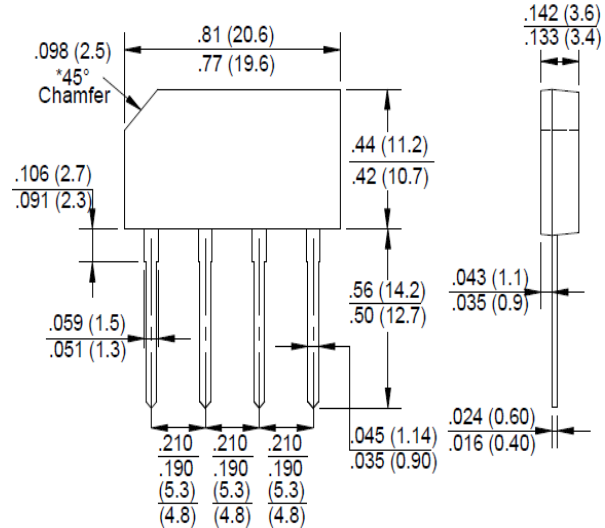
### Applications

- General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.

**2GBJ**



**RoHS**  
COMPLIANT



Package Outline Dimensions in Inches (Millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	GBL005	GBL01	GBL02	GBL04	GBL06	GBL08	GBL10	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =50 °C	I <sub>(AV)</sub>	4.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	135							A
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	I <sup>2</sup> t	75.6							A <sup>2</sup> s
Peak Forward Voltage Per Diode at 2A DC	V <sub>F</sub>	0.95							V
Peak Forward Voltage per Diode at 4A DC	V <sub>F</sub>	1.05							V
Maximum DC Reverse Current at Rated @T <sub>J</sub> =25°C	I <sub>R</sub>	5.0							μA
DC Blocking Voltage per Diode @T <sub>J</sub> =125°C		500							
Typical Thermal Resistance to Ambient	R <sub>θJA</sub>	28							°C/W
Typical Thermal Resistance to case	R <sub>θJC</sub>	4.2							
Typical Thermal Resistance to lead	R <sub>θJL</sub>	4							
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note: 1. Mounting conditions .05" lead length maximum.

2.The typical data above is for reference only



Fig. 1 - Forward Current Derating Curve

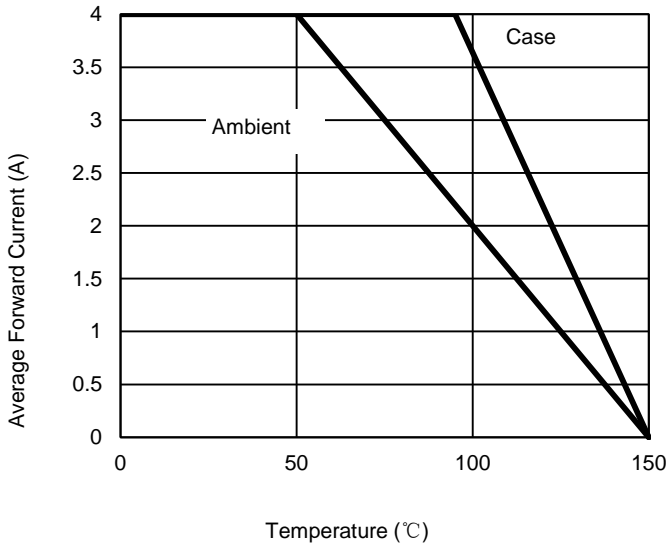


Fig. 2 - Maximum Non-Repetitive Surge Current

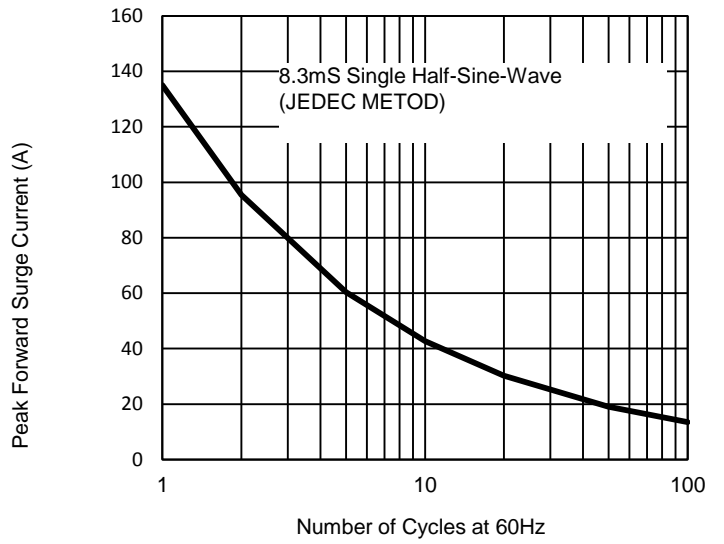


Fig. 3 - Typical Reverse Characteristics

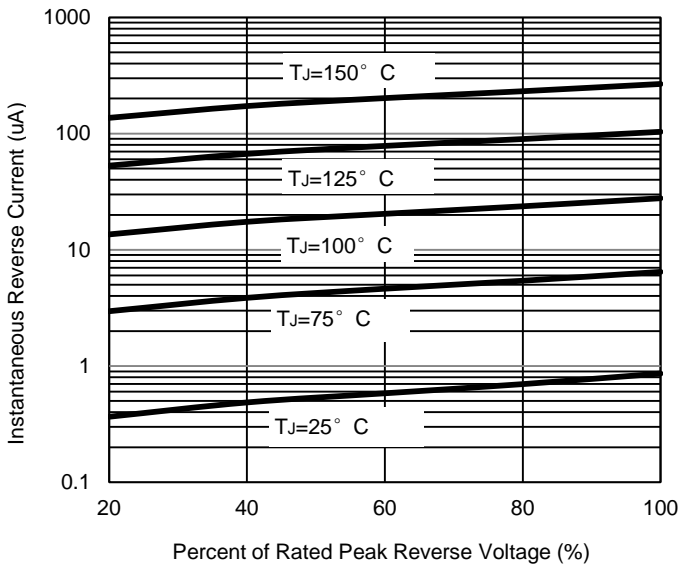
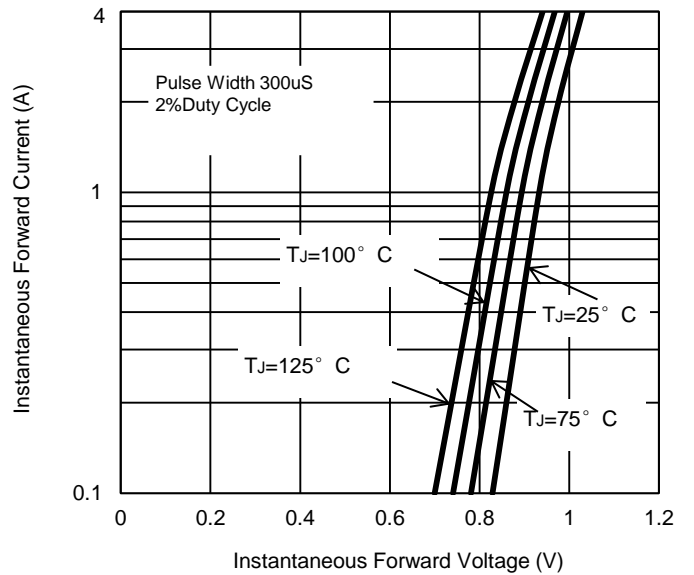


Fig. 4 - Typical Forward Characteristics





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