

**Glass Passivated Bridge Rectifiers****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**

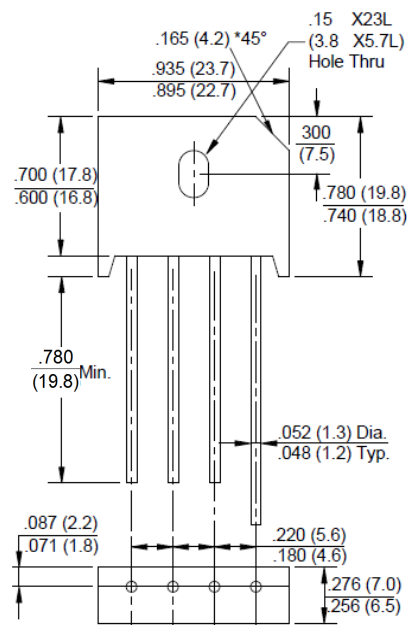
- Polarity: Symbol marked on body
- Mounting position: Any

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

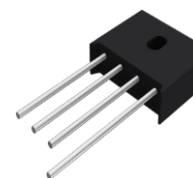
**Applications**

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

**Reverse Voltage - 50 to 1000 Volts**  
**Forward Current - 10 Amperes**

**KBU**

**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            | KBU         | KBU   | KBU   | KBU   | KBU   | KBU   | KBU   | Unit             |
|----------------------------------------------------------------------------------------------------|-------------------|-------------|-------|-------|-------|-------|-------|-------|------------------|
|                                                                                                    |                   | 10005G      | 1001G | 1002G | 1004G | 1006G | 1008G | 1010G |                  |
| 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 nt (with heatsink Note 1)                                                  | I <sub>(AV)</sub> | 10.0        |       |       |       |       |       |       | A                |
| Rectified Curre @ Tc=100℃ (without heatsink)                                                       |                   | 3.0         |       |       |       |       |       |       |                  |
| Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) | I <sub>FSM</sub>  | 200         |       |       |       |       |       |       | A                |
| I <sup>2</sup> t Rating for Fusing (t<8.3mS)                                                       | I <sup>2</sup> t  | 166         |       |       |       |       |       |       | A <sup>2</sup> s |
| Peak Forward Voltage per Diode at 5.0A DC                                                          | V <sub>F</sub>    | 1.1         |       |       |       |       |       |       | V                |
| Maximum DC Reverse Current at Rated @T <sub>J</sub> =25℃                                           | I <sub>R</sub>    | 10          |       |       |       |       |       |       | μA               |
| DC Blocking Voltage per Diode @T <sub>J</sub> =125℃                                                |                   | 500         |       |       |       |       |       |       |                  |
| Operating Junction Temperature Range                                                               | T <sub>J</sub>    | -55 to +150 |       |       |       |       |       |       | ℃                |
| Storage Temperature Range                                                                          | T <sub>STG</sub>  | -55 to +150 |       |       |       |       |       |       | ℃                |



Fig. 1 - Forward Current Derating Curve

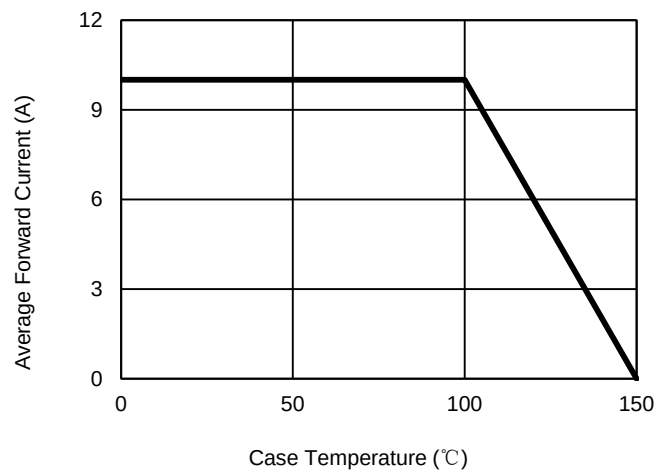


Fig. 2 - Maximum Non-Repetitive Surge Current

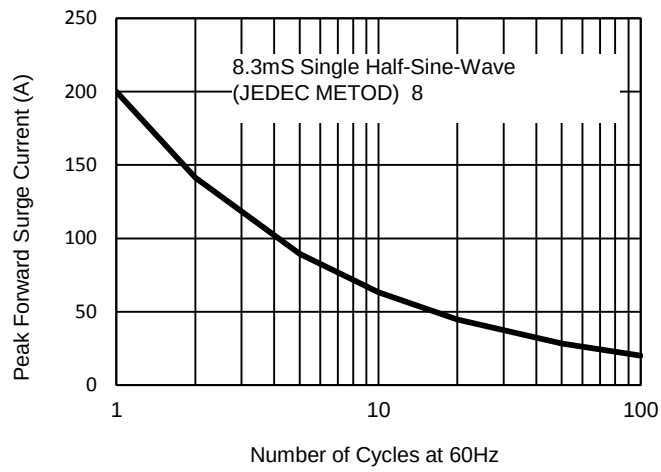


Fig. 3 - Typical Reverse Characteristics

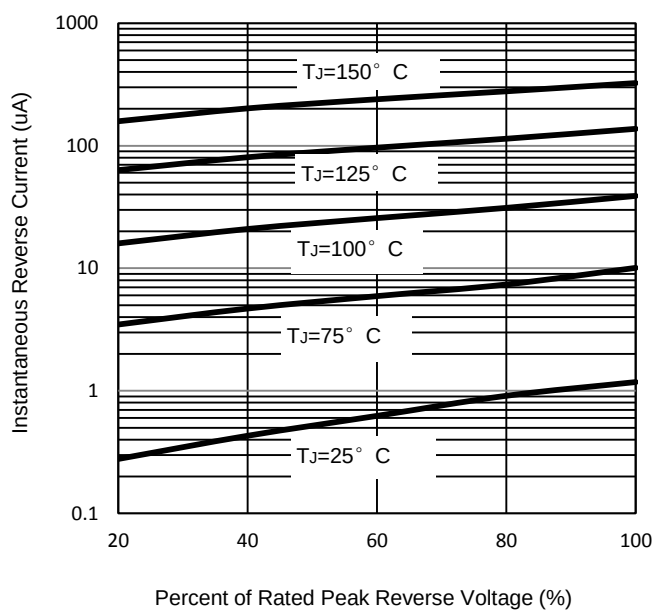
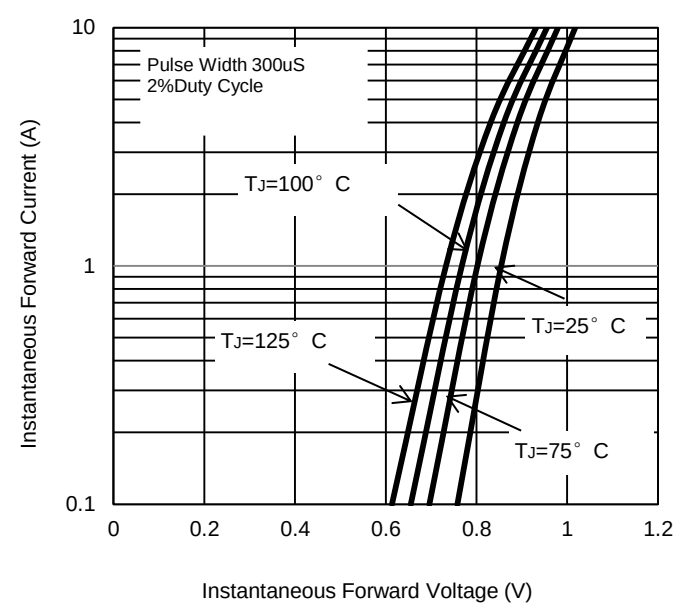


Fig. 4 - Typical Forward Characteristics





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