



Glass Passivated Bridge Rectifiers

**Reverse Voltage - 1000 Volts
Forward Current - 6.0 Amperes**

Features

- Glass passivated chip
- Low forward voltage drop
- Small size; simple installation
- Lead tin plated copper
- 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.

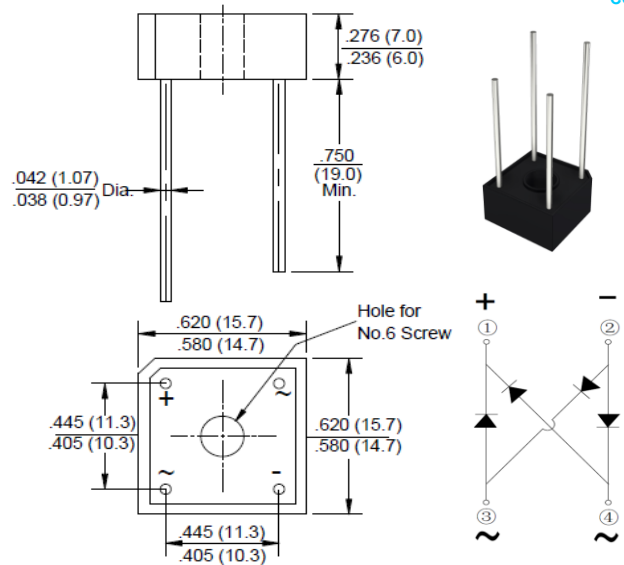
Applications

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

BR6



**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	KBPC6010	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS Voltage	V _{RMS}	700	V
Maximum Average Forward Rectified Current @T _A =50 °C	I _(AV)	6.0	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150	A
I ² t Rating for Fusing (t<8.3mS)	I ² t	93.4	A ² s
Peak Forward Voltage per Diode at 3.0A DC	V _F	1.1	V
Maximum DC Reverse Current at Rated @T _J =25°C	I _R	10.0	µA
DC Blocking Voltage per Diode @T _J =100°C		1.0	mA
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C



Fig. 1 - Forward Current Derating Curve

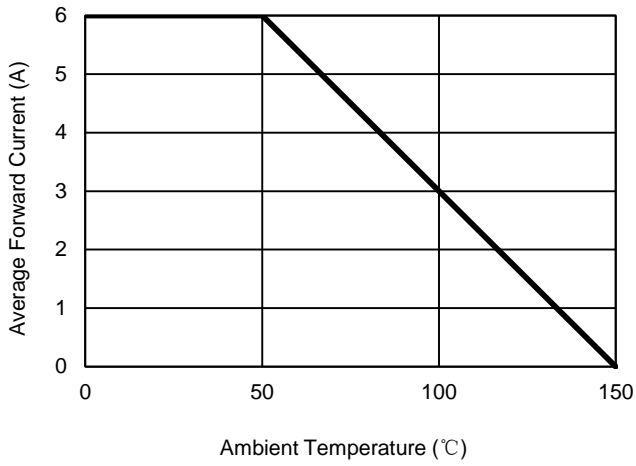


Fig. 2 - Maximum Non-Repetitive Surge Current

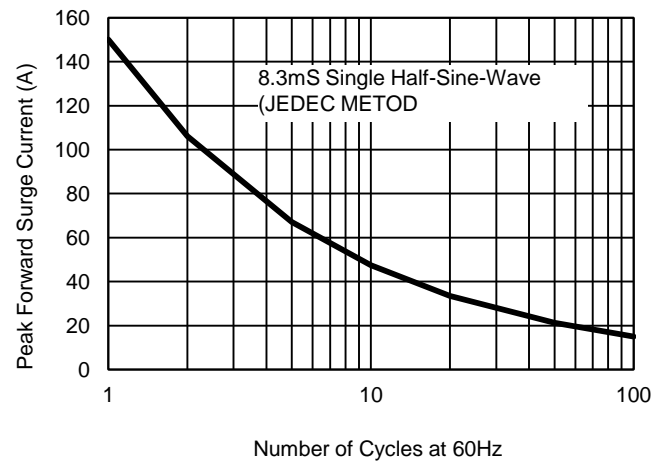


Fig. 3 - Typical Reverse Characteristics

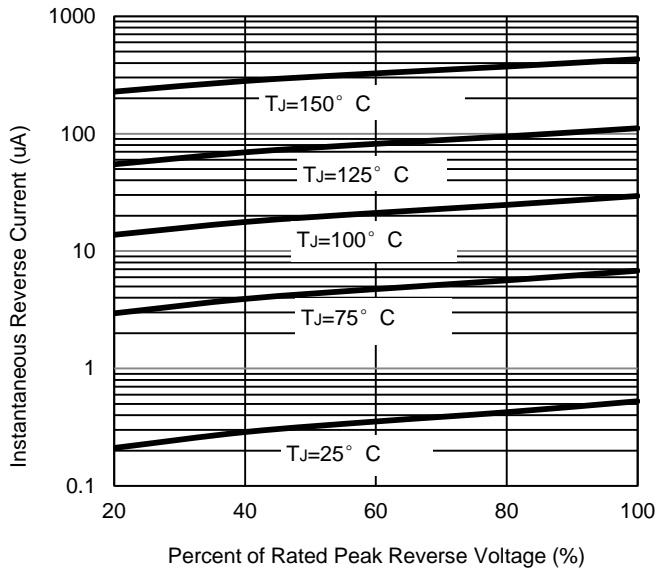
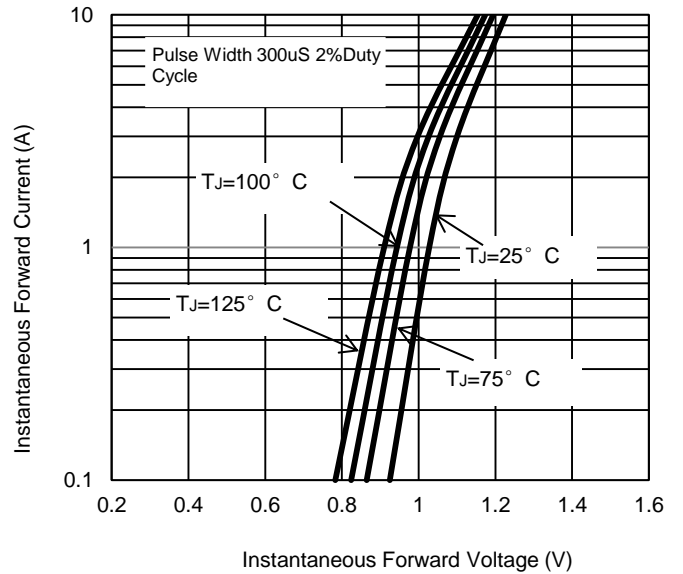


Fig. 4 - Typical Forward Characteristics





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