

**Glass Passivated Bridge Rectifiers****Reverse Voltage - 50 to 1000 Volts****Forward Current - 10 Amperes****Features**

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

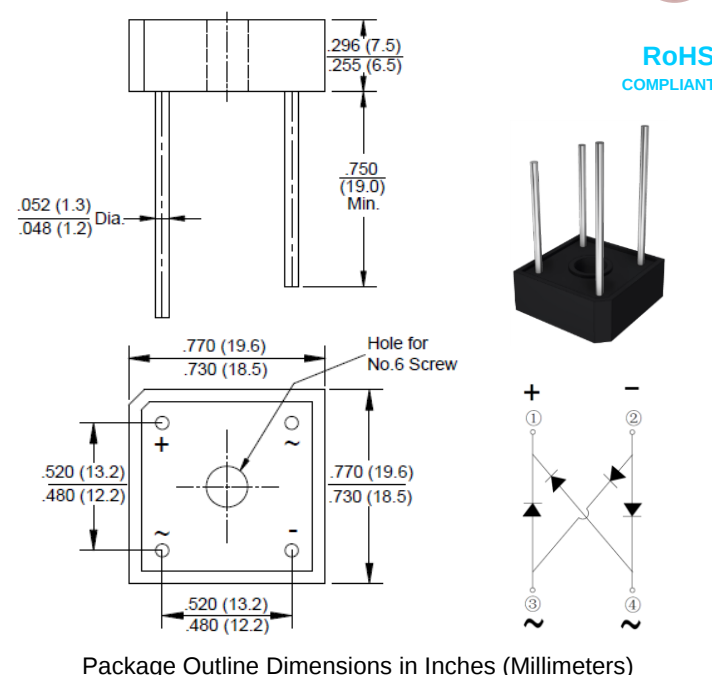
Mechanical Data

- 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.

BR8**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	BR	BR	BR	BR	BR	BR	BR	UNIT
		10005SG	1001SG	1002SG	1004SG	1006SG	1008SG	1010SG	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @T _A =50 °C	I _(AV)	10.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	175							A
I ² t Rating for Fusing (t<8.3mS)	I ² t	127.1							A ² s
Peak Forward Voltage per Diode at 5.0A 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

Notes: 1. Unit mounted on metal chassis

2. Unit mounted on P.C. board



Fig. 1 - Forward Current Derating Curve

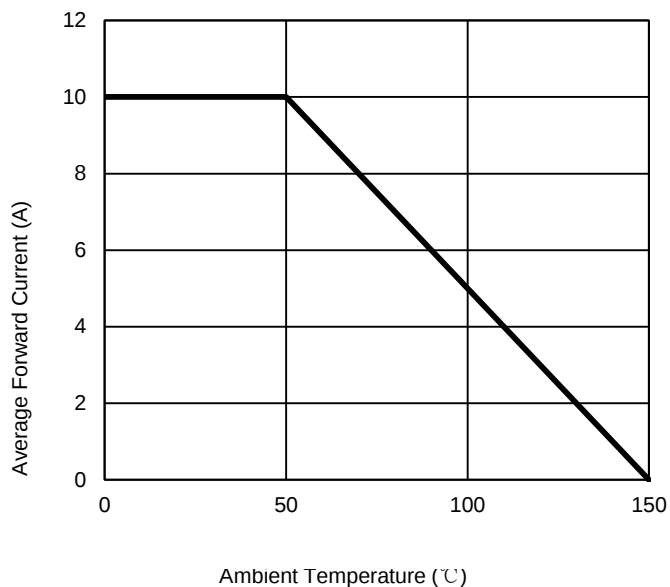


Fig. 2 - Maximum Non-Repertitive Surge Current

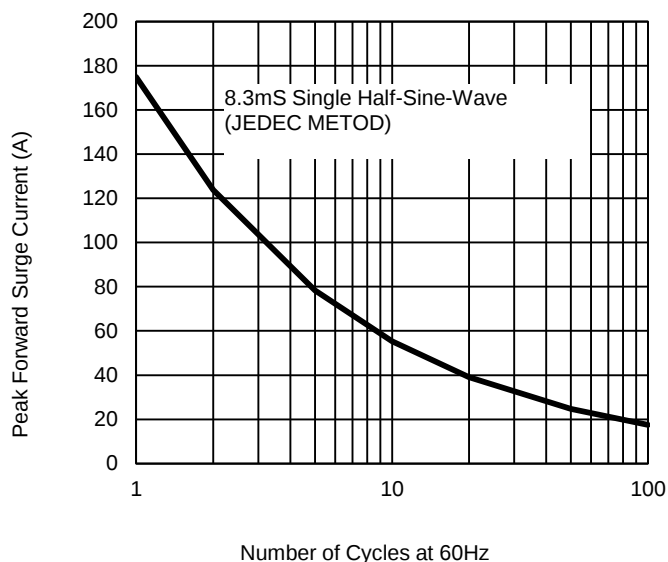


Fig. 3 - Typical Reverse Characteristics

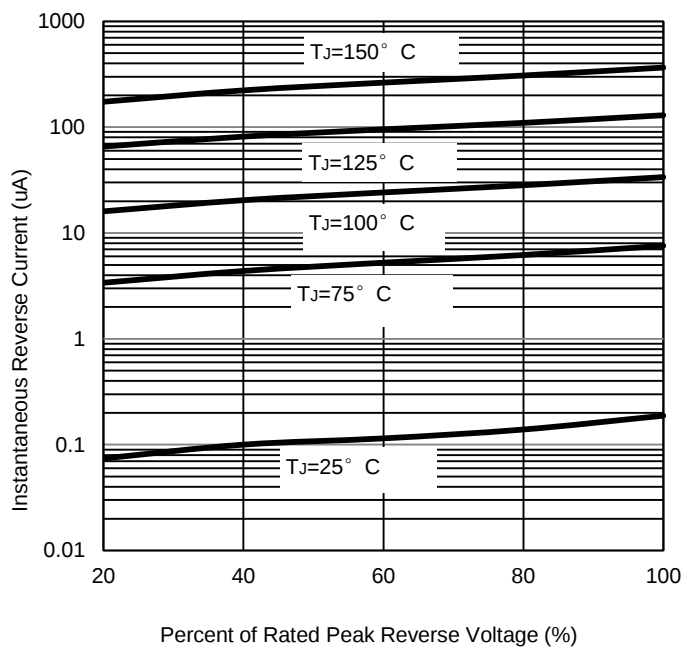
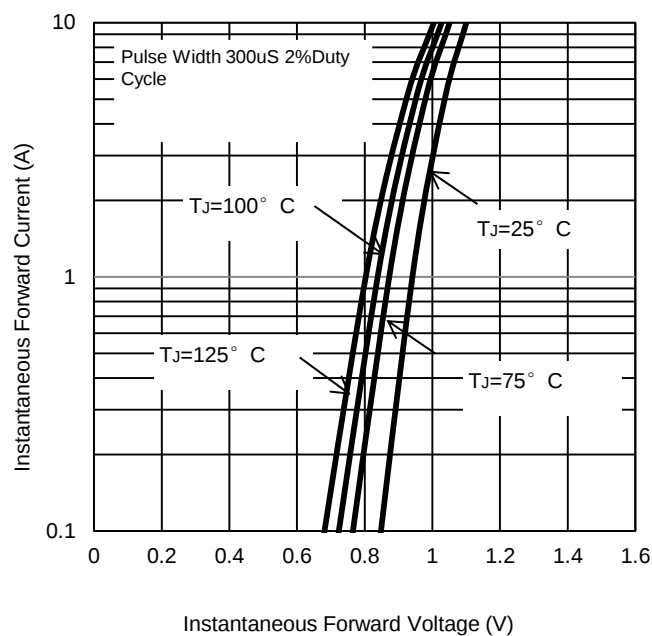


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.



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