

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

- Glass passivated chip
- Low forward voltage drop
- Meet UL flammability classification 94V-0

Mechanical Data

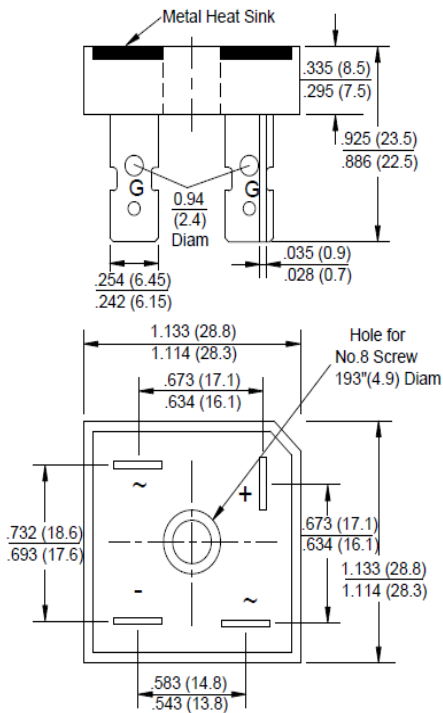
- Polarity: Symbol marked on body

- 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 home appliances, office equipment, etc.

Reverse Voltage - 50 to 1000 Volts**Forward Current - 25 Amperes****GBPC**

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	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	Unit
		25005	2501	2502	2504	2506	2508	2510	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Tc=55 °C	l(AV)	25							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	lFSM	350							A
I²t Rating for Fusing (t<8.3mS)	I²t	508.4							A²s
Peak Forward Voltage per Diode at 12.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated @Tj=25°C	IR	5							µA
DC Blocking Voltage per Diode @Tj=125°C		500							
Operating Junction Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C



Fig. 1 - Forward Current Derating Curve

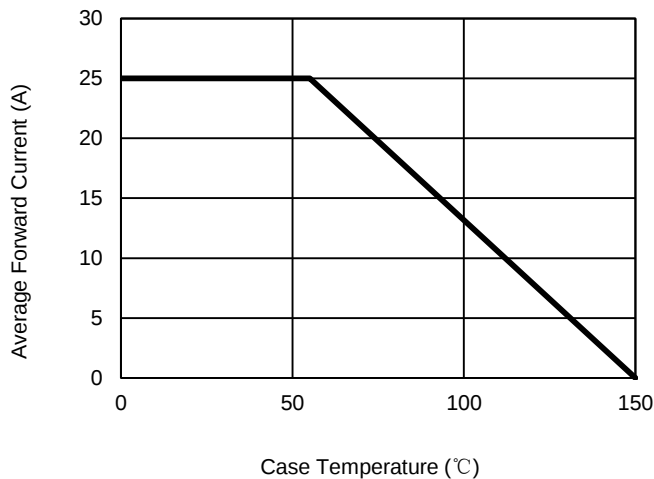


Fig. 2 - Maximum Non-Repetitive Surge Current

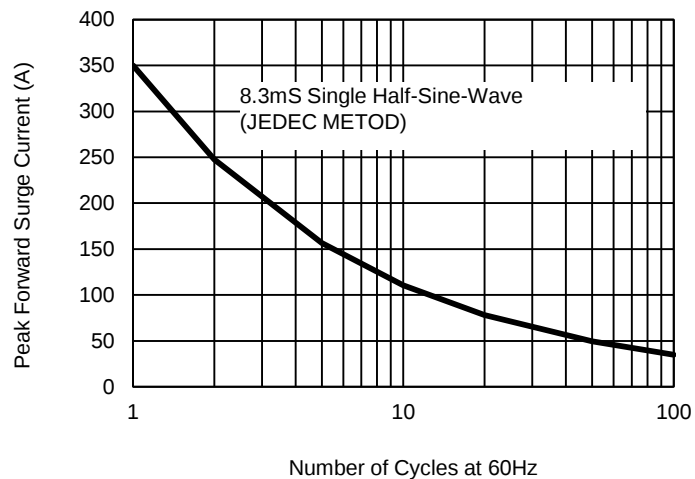


Fig. 3 - Typical Reverse Characteristics

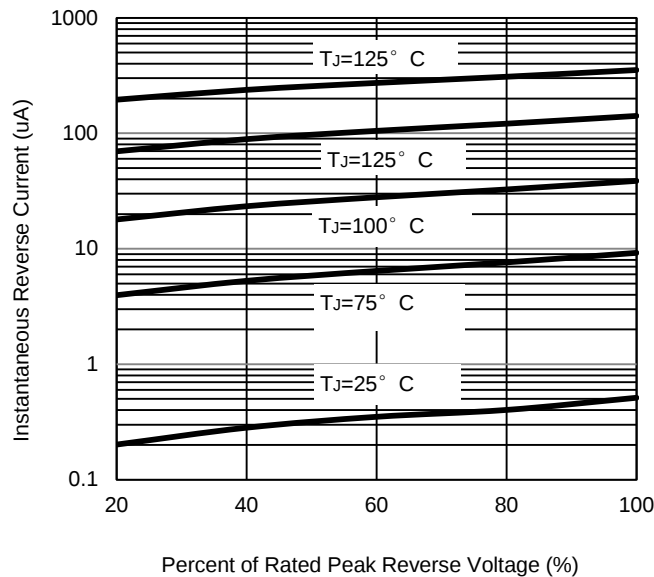
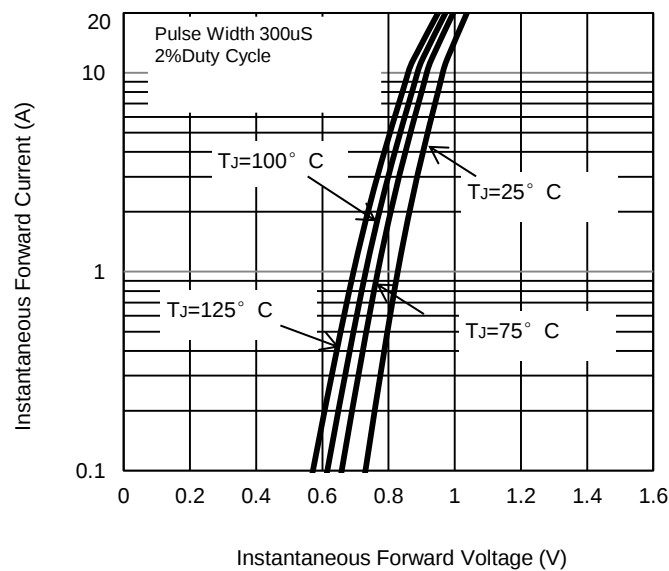


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.



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