

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

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

Mechanical Data

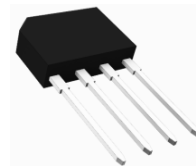
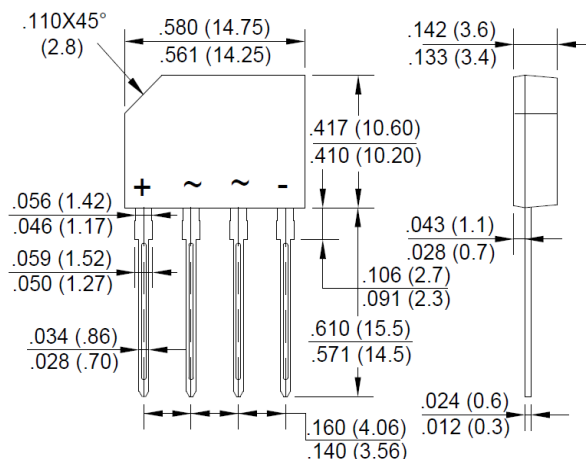
- Polarity: Symbol marked on body
- Mounting position: Any

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 - 2.0 Amperes

GBP**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	GBP	GBP	GBP	GBP	GBP	GBP	GBP	Unit
		2005	201	202	204	206	208	210	
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 DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc=100 ℃	I(AV)	2.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	60							A
Peak Forward Surge Current, 1mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	120							A
I²t Rating for Fusing(1ms≤t≤8.3ms)	I²t	14.9							A²s
Peak Forward Voltage per Diode at 2.0A DC	VF	1.05							V
Maximum DC Reverse Current at Rated @Tj=25℃	IR	5							μA
DC Blocking Voltage per Diode @Tj=125℃		500							
Typical Thermal Resistance to Ambient （without heatsink）	RθJA	40							℃/W
Typical Thermal Resistance to case （with heatsink ）	RθJC	10							℃/W
Typical Thermal Resistance to lead （without heatsink）	RθJL	5							℃/W
Operating Junction Temperature Range	TJ	-55 to +150							℃
Storage Temperature Range	TSTG	-55 to +150							℃

Note: The typical data above is for reference only



Fig. 1 - Forward Current Derating Curve

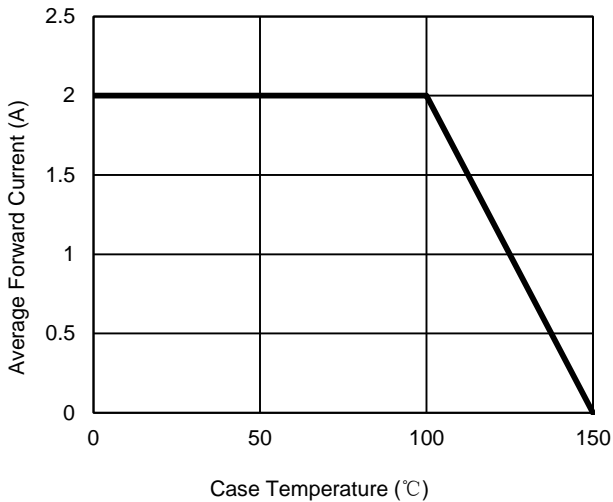


Fig. 2 - Maximum Non-Repetitive Surge Current

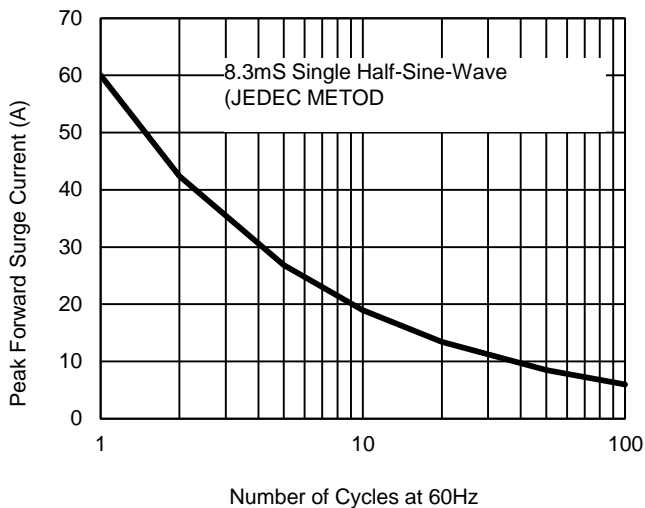


Fig. 3 - Typical Reverse Characteristics

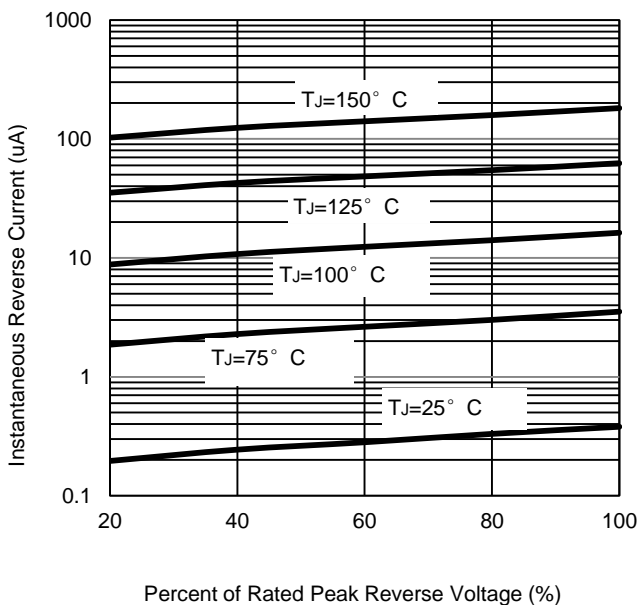
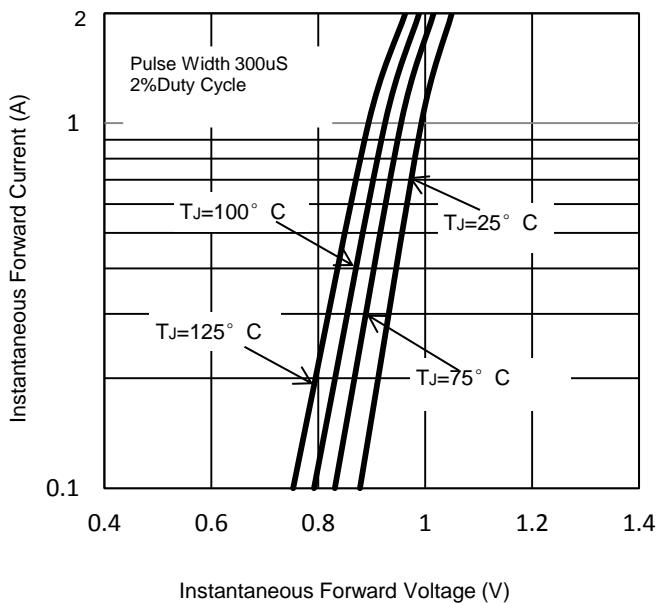


Fig. 4 - Typical Forward Characteristics





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