



Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts
Forward Current - 2.0 Amperes

Features

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

Mechanical Data

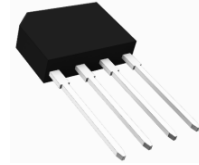
- Polarity: Symbol marked on body
- Mounting position: Any

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

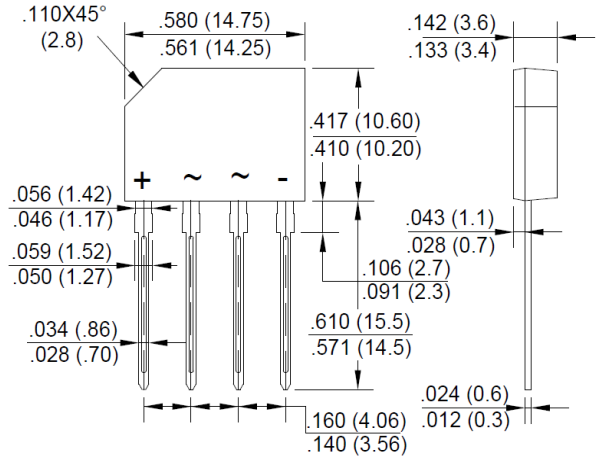
Applications

- General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.

GBP



RoHS
COMPLIANT



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	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	v
Maximum Average Forward Rectified Current @T _C =100 °C	I _(AV)	2.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	60							A
Peak Forward Surge Current, 1ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	120							A
I ² t Rating for Fusing(1ms≤t≤8.3ms)	I ² t	14.9							A ² s
Peak Forward Voltage per Diode at 2.0A DC	V _F	1.05							V
Maximum DC Reverse Current at Rated @T _J =25°C	I _R	5							μA
DC Blocking Voltage per Diode @T _J =125°C		500							
Typical Thermal Resistance to Ambient (without heatsink)	R _{θJA}	40							°C/W
Typical Thermal Resistance to case (with heatsink)	R _{θJC}	10							°C/W
Typical Thermal Resistance to lead (without heatsink)	R _{θJL}	5							°C/W
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note: The typical data above is for reference only



Fig. 1 - Forward Current Derating Curve

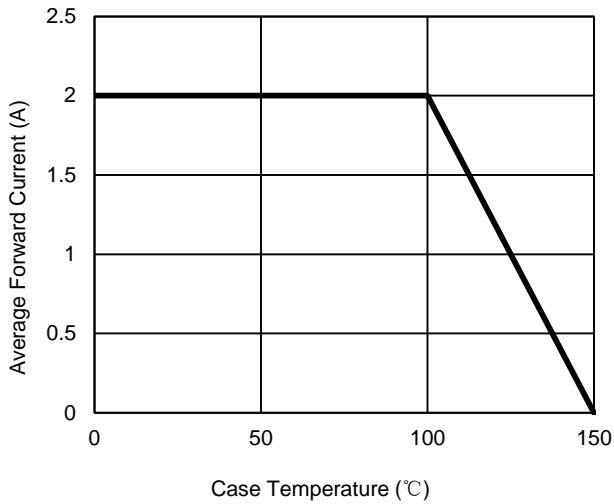


Fig. 2 - Maximum Non-Repetitive Surge Current

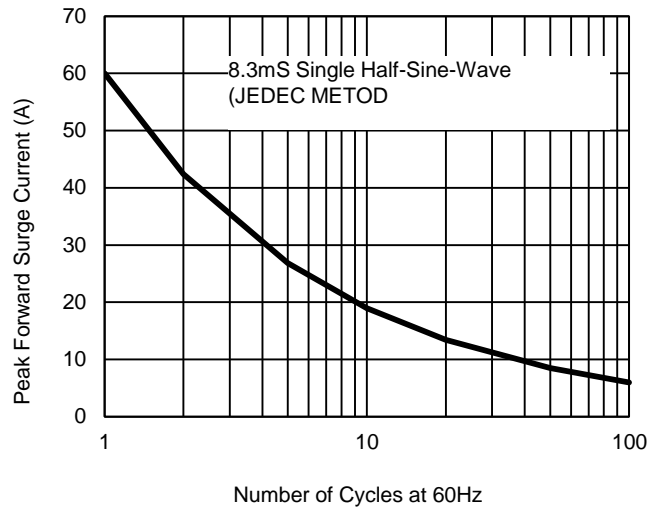


Fig. 3 - Typical Reverse Characteristics

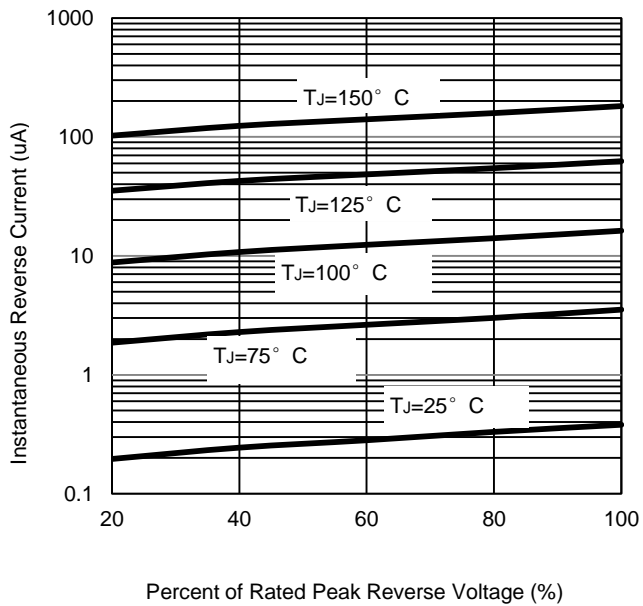
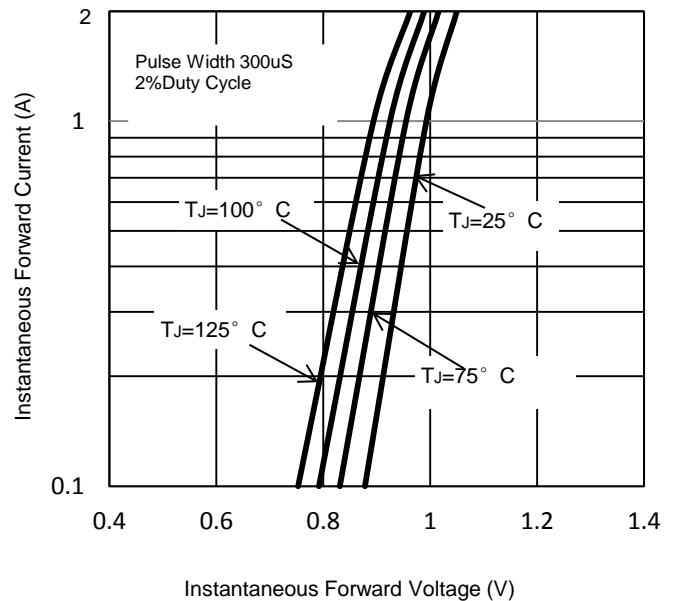


Fig. 4 - Typical Forward Characteristics





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