GBU2016

Glass Passivated Bridge Rectifiers

Reverse Voltage - 1600 Volts
Forward Current - 20 Amperes

Features

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

Mechanical Data

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

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

Applications

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

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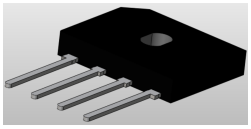
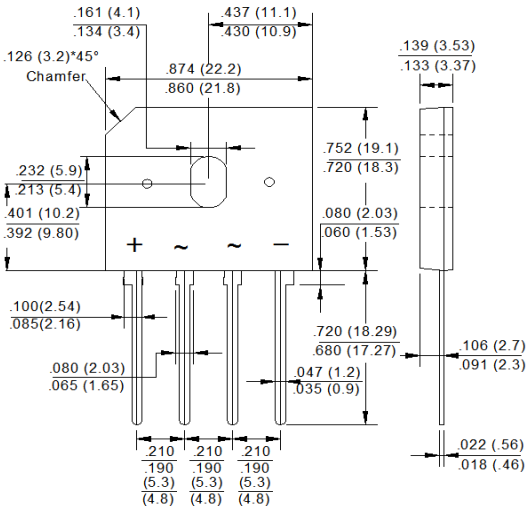


RoHS COMPLIANT



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	GBU2016	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1600	V
Maximum RMS Voltage	V_{RMS}	1120	V
Maximum DC Blocking Voltage	V_{DC}	1600	V
Maximum Average Forward (with heatsink Note 2)	$I_{(AV)}$	20.0	A
Rectified Current @ T_C=100℃ (without heatsink)		3.6	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	260	A
I^2t Rating for Fusing (t<8.3mS)	I^2t	280.54	A^2s
Peak Forward Voltage per Diode at 10A DC	V_F	1.25	V
Maximum DC Reverse Current at Rated @T_J=25℃	I_R	5.0	μA
DC Blocking Voltage per Diode @T_J=125℃		500	
Operating Junction Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

Note: The typical data above is for reference only

Rating and Characteristic Curves
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Fig. 1 - Forward Current Derating Curve

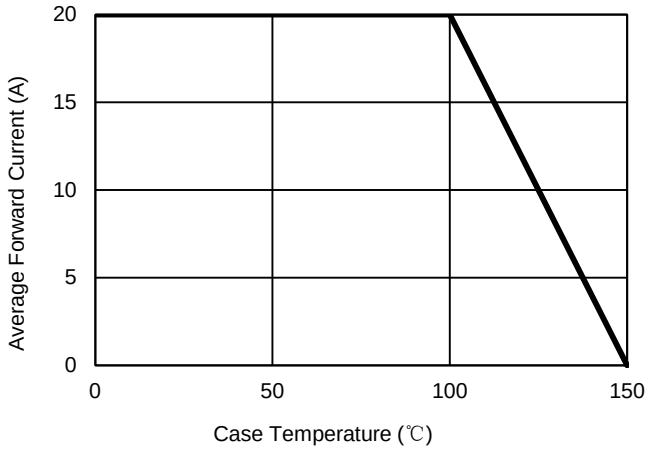


Fig. 2 - Maximum Non-Repetitive Surge Current

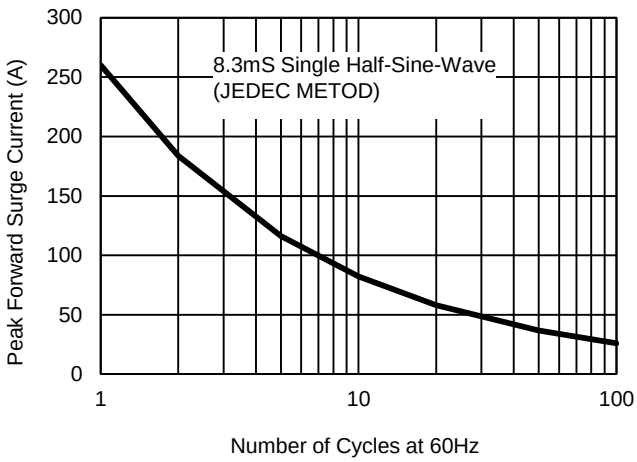


Fig. 3 - Typical Reverse Characteristics

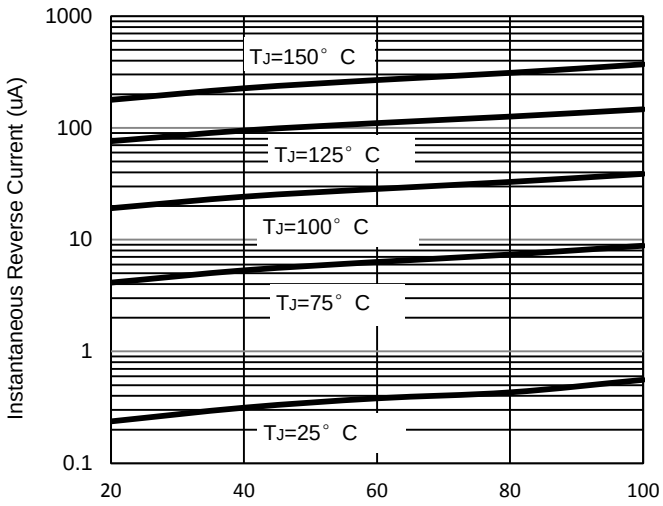
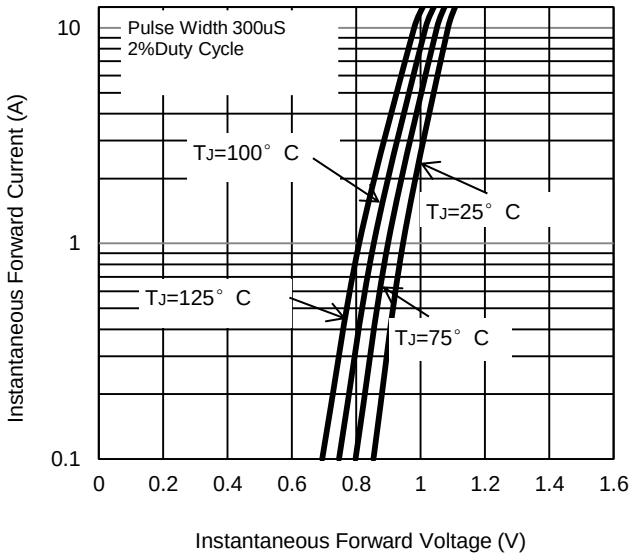


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.

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