



Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts

Forward Current - 6.0 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

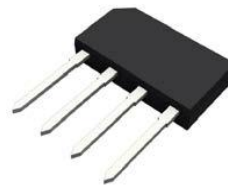
- Polarity: Symbol marked on body
- Mounting position: Any

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

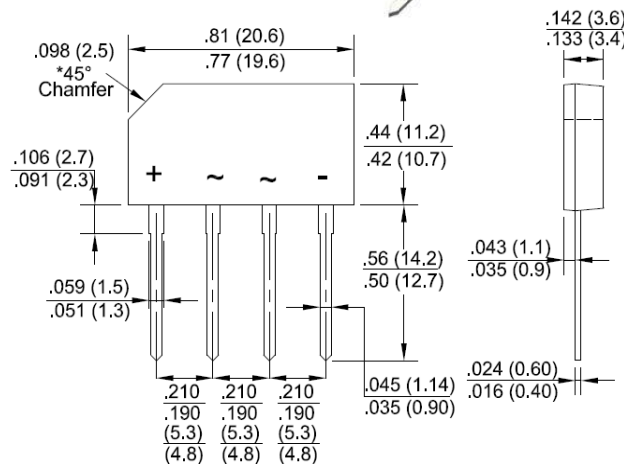
Applications

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

2GBJ



RoHS COMPLIANT



Dimensions in inches and (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	GBL6005	GBL601	GBL602	GBL604	GBL606	GBL608	GBL610	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	v
Maximum RMS Bridge Input 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 Output Current @ T _c =96°C (Note1)	I _(AV)	6.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	150							A
I ² t Rating for Fusing (t<8.3ms)	I ² t	93.37							A ² s
Maximum Forward Voltage Drop Per Bridge Element at 3.0A Peak	V _F	1.0							v
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	10.0							μA
Maximum Reverse Current at Rated DC Blocking Voltage @ T _J =100°C	I _R	1.0							mA
Typical Thermal Resistance	R _{θJC}	4.7							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note:1.Mounting conditions,0.5" lead length maximum.

2.The typical data above is for reference only .



Fig. 1 - Forward Current Derating Curve

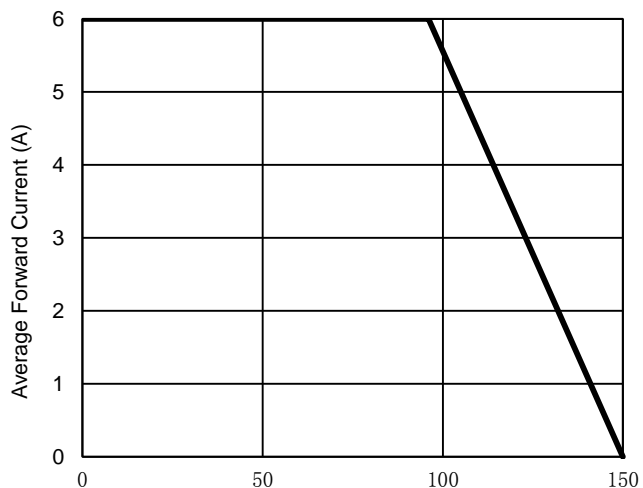


Fig. 2 - Maximum Non-Repetitive Surge Current

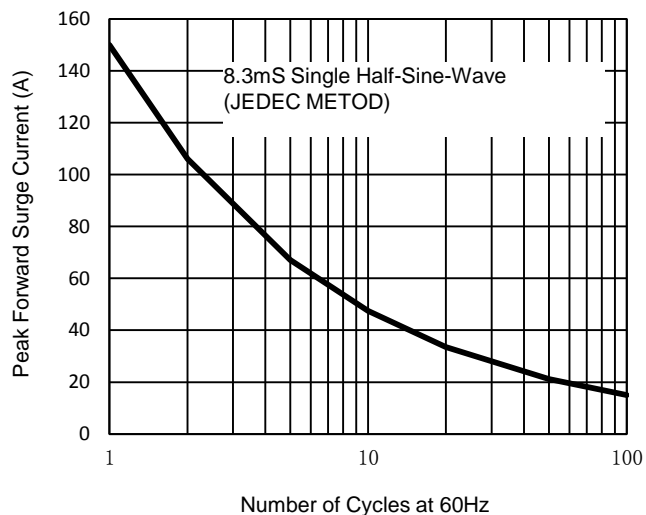


Fig. 3 - Typical Reverse Characteristics

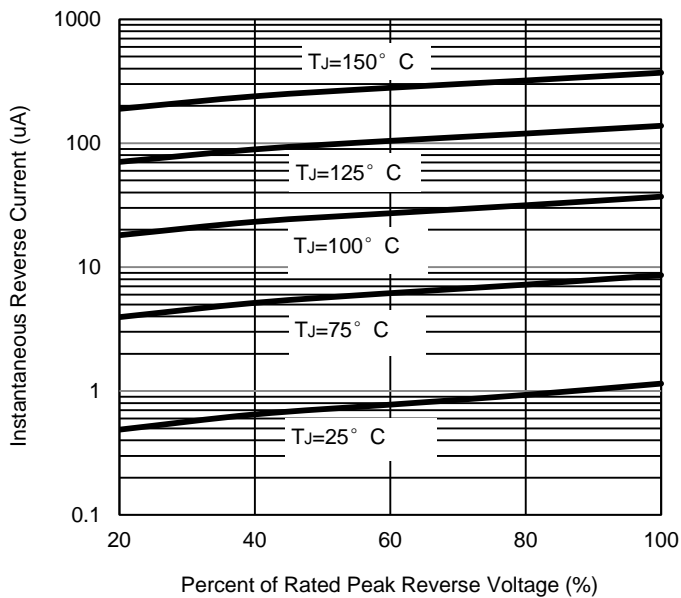
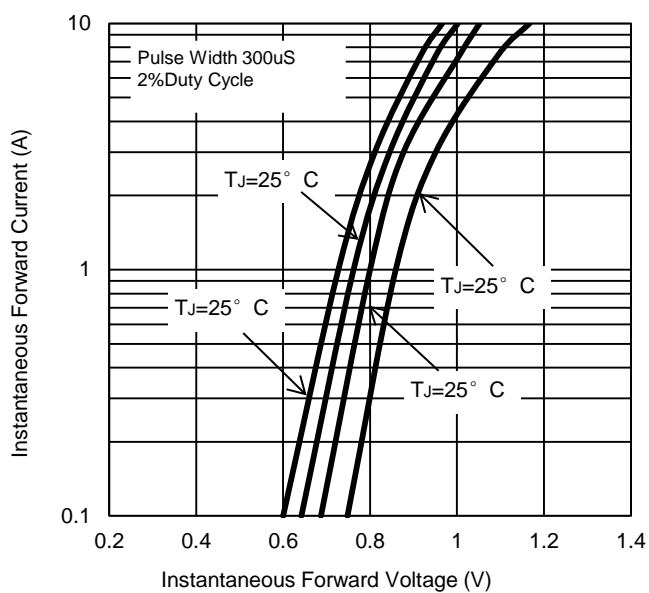


Fig. 4 - Typical Forward Characteristics





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