

# **Glass Passivated Bridge Rectifiers**

## Reverse Voltage - 800 Volts Forward Current - 15 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**

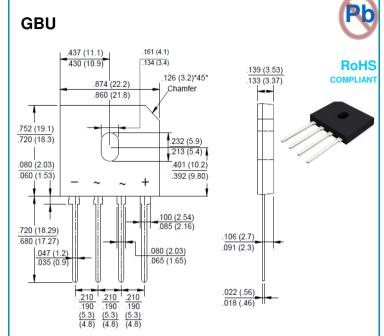
• Polarity: Symbol marked on body

Mounting position: Any

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

## **Applications**

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



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	GBU1508L	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	800	V
Maximum RMS Voltage	VRMS	560	V
Maximum DC Blocking Voltage	VDC	800	V
Maximum Average Forward Rectified Current (with heatsink Note 2)	I(AV)	15.0	А
'@ TC=100℃ (without heatsink)		3.2	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	240	А
Superimposed on Rated Load (JEDEC Method)			A
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	I <sup>2</sup> t	239	A <sup>2</sup> s
Peak Forward Voltage per Diode at 7.5A DC	VF	0.95	V
Maximum DC Reverse Current at Rated @TJ=25℃	lr	5.0	
DC Blocking Voltage per Diode @TJ=125°C		500	μΑ
Typical Junction Capacitance per Diode (Note1)	Cı	70	pF
Typical Thermal Resistance to Ambient (Note2)	Reja	8	
Typical Thermal Resistance to case (Note2)	Rejc	2	℃/ <b>W</b>
Typical Thermal Resistance to lead (Note2)	Rejl	1.5	
Operating Junction Temperature Range	TJ	-55 to +150	℃
Storage Temperature Range	Тѕтс	-55 to +150	$^{\circ}$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

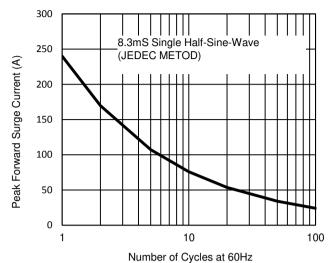
- 2.Device mounted on 100mm\*100mm\*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only

## **Rating and Characteristic Curves GBU1508L**



Fig. 1 - Forward Current Derating Curve With heatsink Without heatsink

Fig. 2 - Maximum Non-Repetitive Surge Current



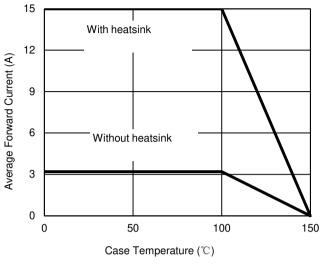
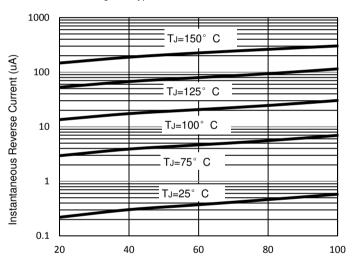
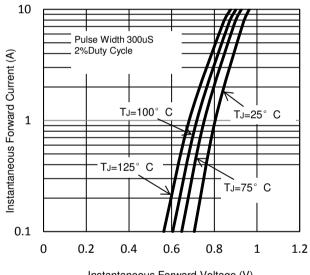


Fig. 3 - Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage (%)

Fig. 4 - Typical Forward Characteristics



Instantaneous Forward Voltage (V)



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ALL specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

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