## **Low VF Glass Passivated Bridge Rectifiers**

# Reverse Voltage - 600 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**

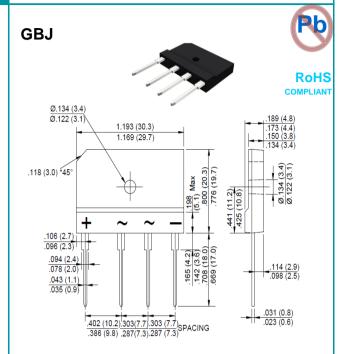
Polarity: Symbol marked on body

Mounting position: Any

Note: Products with logo or 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.



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.

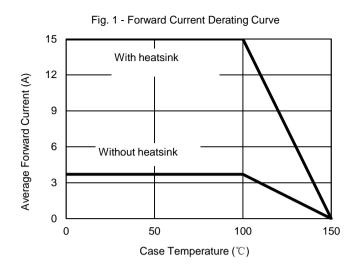
For capacitive load, derate current by 20%.

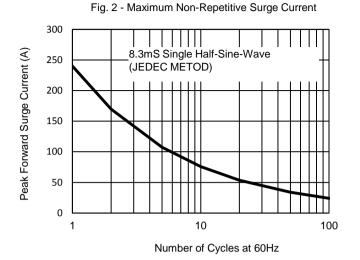
Characteristics	Symbol	GBJ1506L	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V
Maximum RMS Voltage	VRMS	420	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward (with heatsink Note 2)	I(AV)	15.0	А
Rectified Current @ Tc=100°C (without heatsink)	I(AV)	3.7	^
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	240	А
Superimposed on Rated Load (JEDEC Method)	IFSM		A
<sup>2</sup> t Rating for Fusing (t<8.3mS)	l <sup>2</sup> t	240	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 $^{\circ}$ C	lr —	5.0	
DC Bolcking Voltage per Diode @Tյ=125℃	IR	127	μΑ
Typical Junction Capacitance per Diode (Note1)	Cı	60	pF
Typical Thermal Resistance to Ambient (Note2)	Reja	4.5	
Typical Thermal Resistance to case (Note2)	Rejc	0.8	°C/W
Typical Thermal Resistance to lead (Note2)	Rejl	1.5	
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

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

- 2.Device mounted on 300mm\*300mm\*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only







TJ=150° C

TJ=150° C

TJ=125° C

TJ=100° C

TJ=25° C

Percent of Rated Peak Reverse Voltage (%)

Fig. 3 - Typical Reverse Characteristics

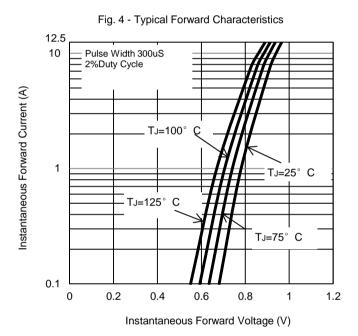
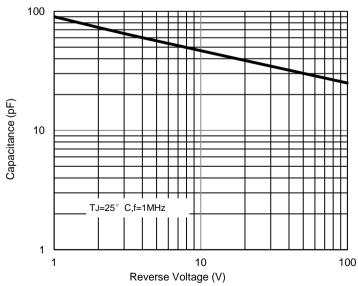


Fig. 5 - Typical Junction Capacitance

100



The curve above is for reference only.

0.1

20



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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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