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

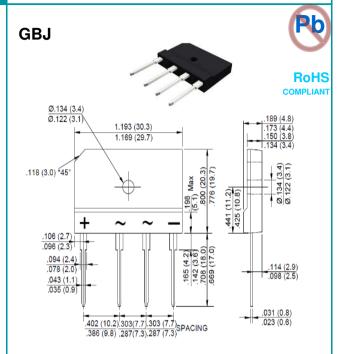
Polarity: Symbol marked on body

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	Α
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		
I ² t Rating for Fusing (t<8.3mS)	l ² t	240	A ² s
Peak Forward Voltage per Diode at 7.5A DC	VF	0.95	V
Maximum DC Reverse Current at Rated @T $_{\rm J}$ =25 $^{\circ}$ C	lr e	5.0	
DC Bolcking Voltage per Diode @TJ=125℃	IR	127	μΑ
Typical Junction Capacitance per Diode (Note1)	CJ	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	$^{\circ}$
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 300mm*300mm*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only



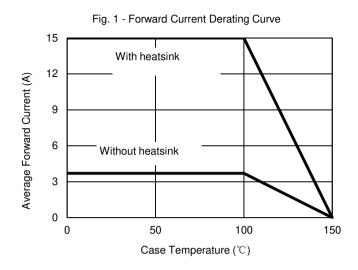


Fig. 2 - Maximum Non-Repetitive Surge Current

Fig. 3 - Typical Reverse Characteristics

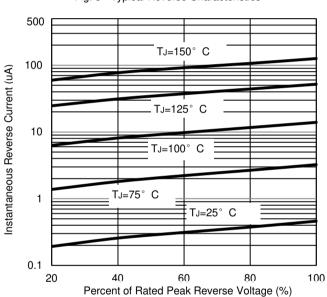


Fig. 4 - Typical Forward Characteristics

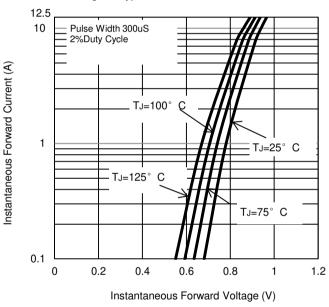
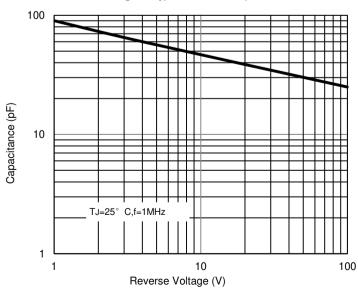


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.



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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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