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

# Reverse Voltage - 800 Volts Forward Current - 25 Amperes

#### **Features**

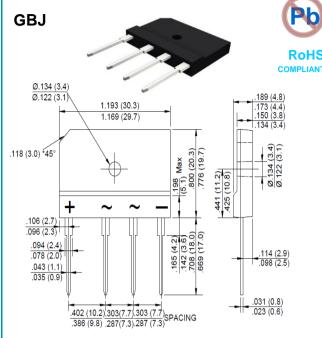
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- •Meet UL flammability classification 94V-0

#### **Mechanical Data**

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

### **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.

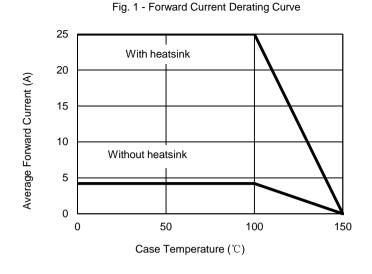
Single phase, half wave, 60Hz, resistive or inductive load.

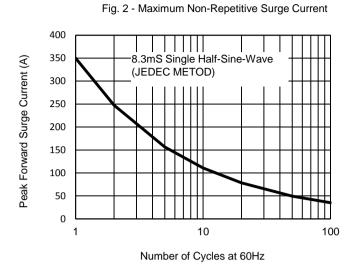
For capacitive load, derate current by 20%.

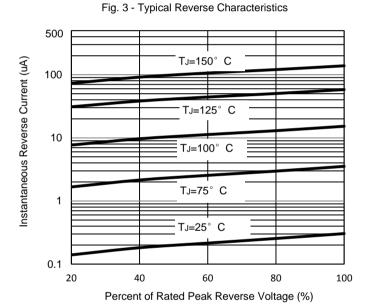
Characteristics	Symbol	GBJ2508P	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	560	V
Maximum DC Blocking Voltage	VDC	800	V
Maximum Average Forward (with heatsink Note 2)	lano	25.0	Α
Rectified Current @ Tc=100℃ (without heatsink)	I(AV)	4.2	^
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	350	А
Superimposed on Rated Load (JEDEC Method)	IFSIVI		
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	l <sup>2</sup> t	508	A <sup>2</sup> s
Peak Forward Voltage per Diode at12.5A DC	VF	0.9	V
Maximum DC Reverse Current at Rated @TJ=25°C	l <sub>R</sub>	5.0	
DC Bolcking Voltage per Diode @TJ=125℃	IR -	120	μA
Typical Junction Capacitance per Diode (Note1)	CJ	85	pF
Typical Thermal Resistance to Ambient (Note2)	Reja	4.5	
Typical Thermal Resistance to case (Note2)	Rejc	0.6	°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









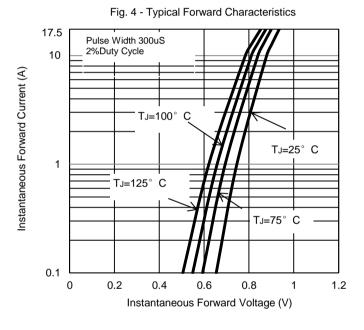
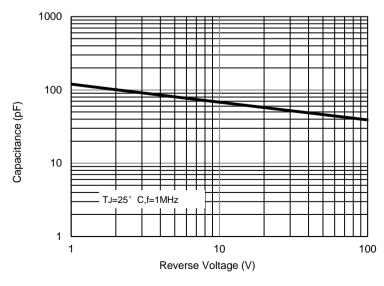


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.



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