



# GBJ2508L

Single Phase 25.0 AMP Low VF Glass Passivated Bridge Rectifier

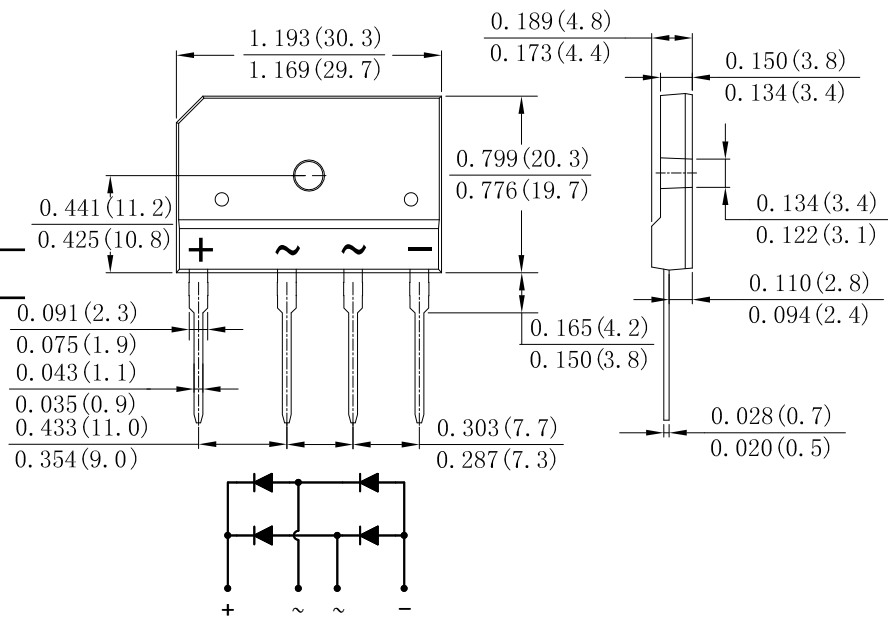
## Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Case: GBJ

## Mechanical Data

- Case: GBJ, molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



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%.

Type Number	SYMBOL	GBJ2508L	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	800	V
Maximum RMS Voltage	V <sub>RMS</sub>	560	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	800	V
Maximum Average Forward (with heatsink Note 1) Rectified Current @ T <sub>c</sub> = 90°C (without heatsink)	I <sub>F(AV)</sub>	25.0 3.6	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	450	A
Forward Voltage @I <sub>F</sub> =12.5A	V <sub>F</sub>	0.92	V
Maximum DC Reverse Current @ T <sub>J</sub> =25 °C at Rated DC Blocking Voltage @ T <sub>J</sub> =125 °C	I <sub>R</sub>	5.0 200	μA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	840.375	A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note2)	C <sub>J</sub>	200	pF
Typical Thermal Resistance	R <sub>θJC</sub>	2.2	°C /W
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C
Dielectric Strength	V <sub>ids</sub>	2500	V
The proposed installation torque Max torque	Tor	Typ. 5.0 Max 8.0	Kgf.cm

Note: 1. Unit case mounted on aluminum plate heatsink.  
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



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Fig. 1 Forward Current Derating Curve

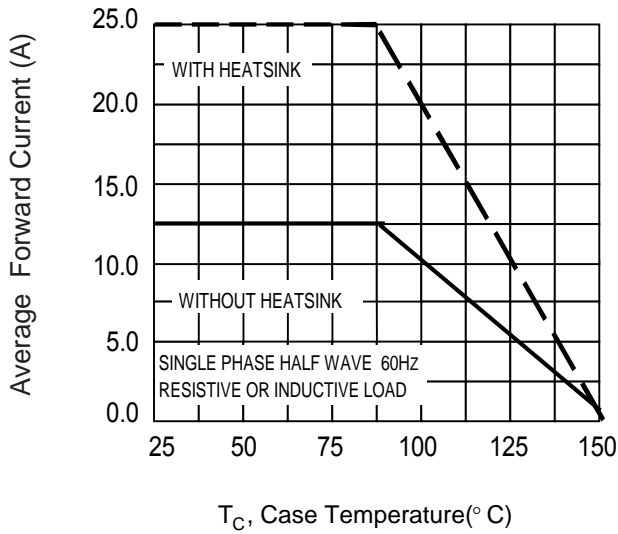


Fig. 2 Typ. Forward Characteristics

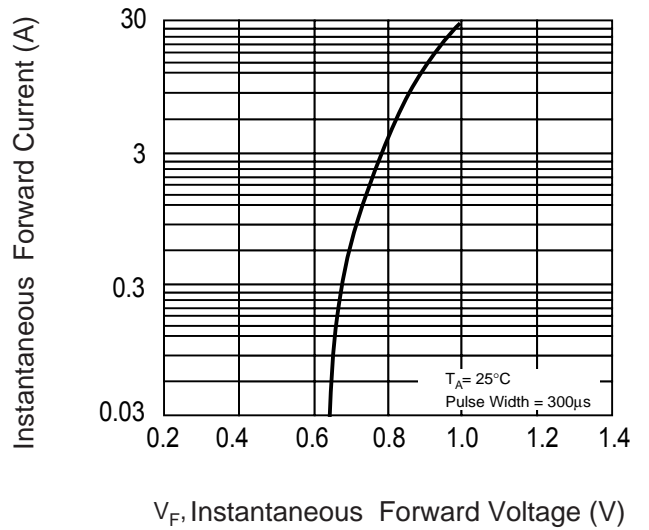


Fig.3 Maximum Peak Forward Surge Current

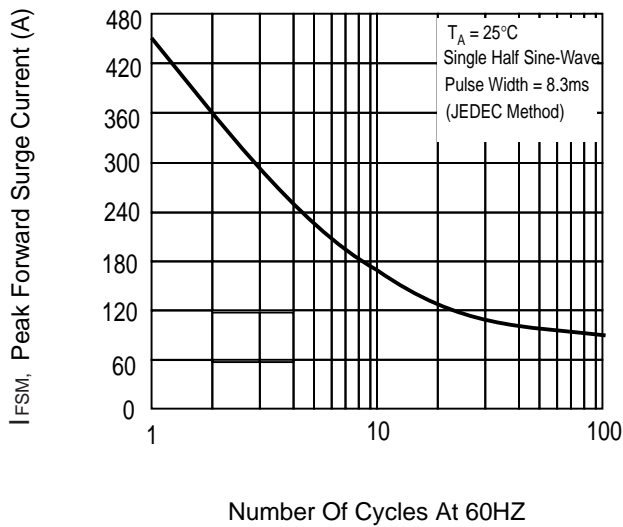


Fig . 4 Typical Junction Capacitance

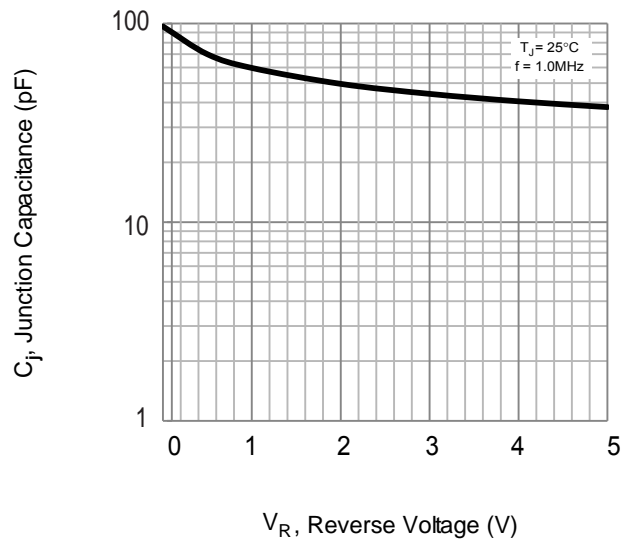
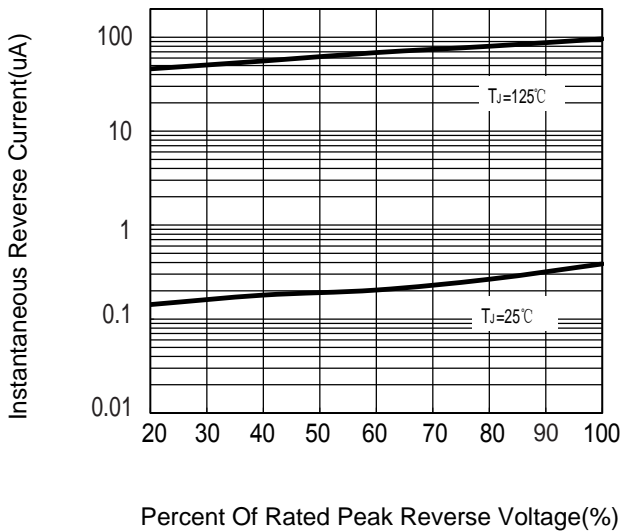


Fig.5 Typical Reverse Characteristics





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