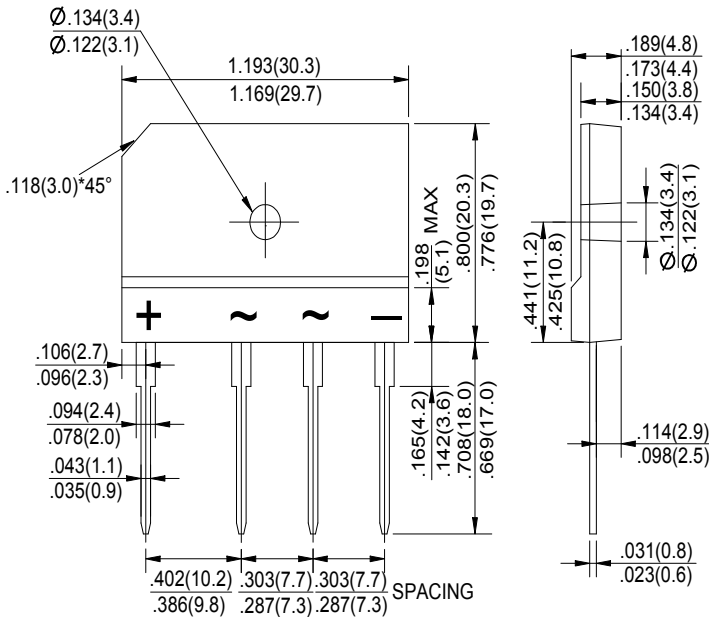




# GBJ25005 thru GBJ2510

**GLASS PASSIVATED BRIDGE RECTIFIERS**  
**REVERSE VOLTAGE - 50 to 1000Volts**  
**FORWARD CURRENT - 25 Amperes**



Dimensions in inches and (millimeters)

## FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0
- Weight: 0.24 ounces , 6.79grams

## 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%

## Package: GBJ

CHARACTERISTICS	SYMBOL	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ Tc=100°C (with heatsink Note 2)	I(AV)	25.0							A
Rectified Current @ Tc=100°C (without heatsink)		4.2							
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	350							A
Maximum Forward Voltage at 12.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ Tj=25°C @ Tj=125°C	IR	10.0 500							uA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	510							A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	CJ	85							pF
Typical Thermal Resistance (Note2)	RθJC	0.6							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
 2. Device mounted on 300mm\*300mm\*1.6mm cu plate heatsink.

## GLASS PASSIVATED BRIDGE RECTIFIERS RATING AND CHARACTERISTIC CURVES

Fig. 1 - Forward Current Derating Curve  
图1 正向电流降额曲线

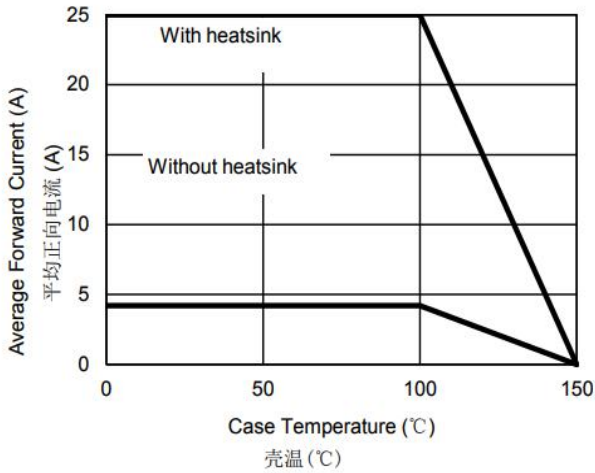


Fig. 3 - Typical Reverse Characteristics  
图3 典型的反向特性

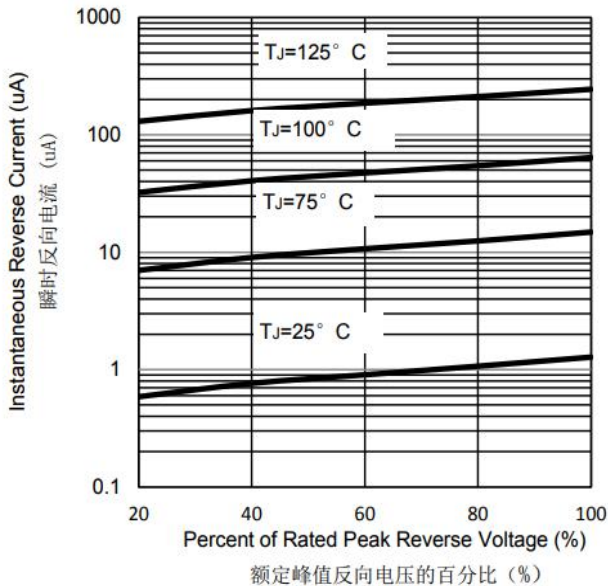


Fig. 2 - Maximum Non-Repetitive Surge Current  
图2 最大不重复正向浪涌曲线

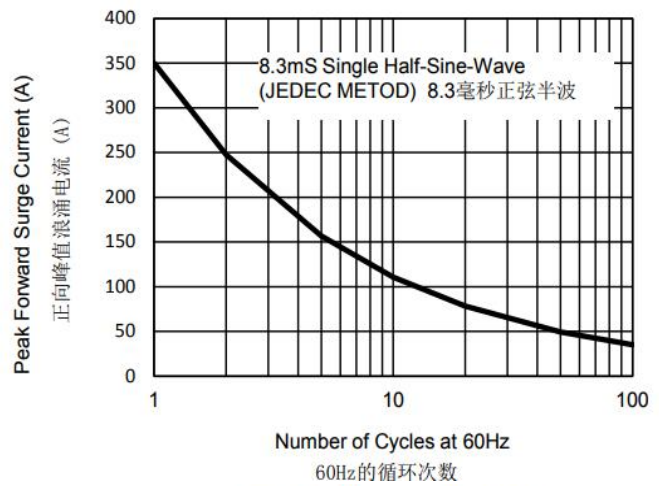


Fig. 4 - Typical Forward Characteristics  
图4 典型的正向特性

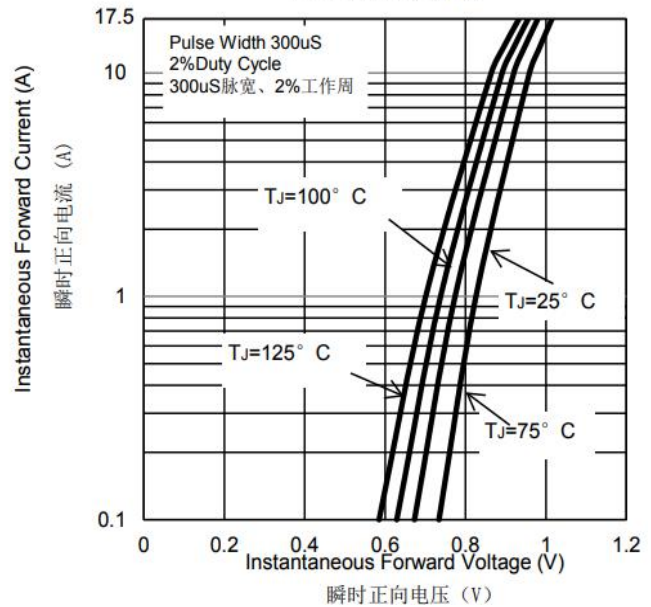


图5 典型的结电容

