

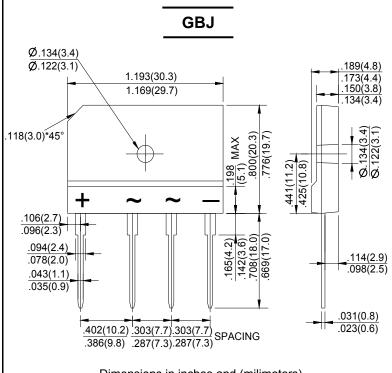
# **GBJ25005 thru GBJ2510**

# GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE FORWARD CURRENT 50 to 1000 Volts25 Amperes

#### **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
- ◆ AEC-Q101 qualified



Dimensions in inches and (milimeters)

# **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%

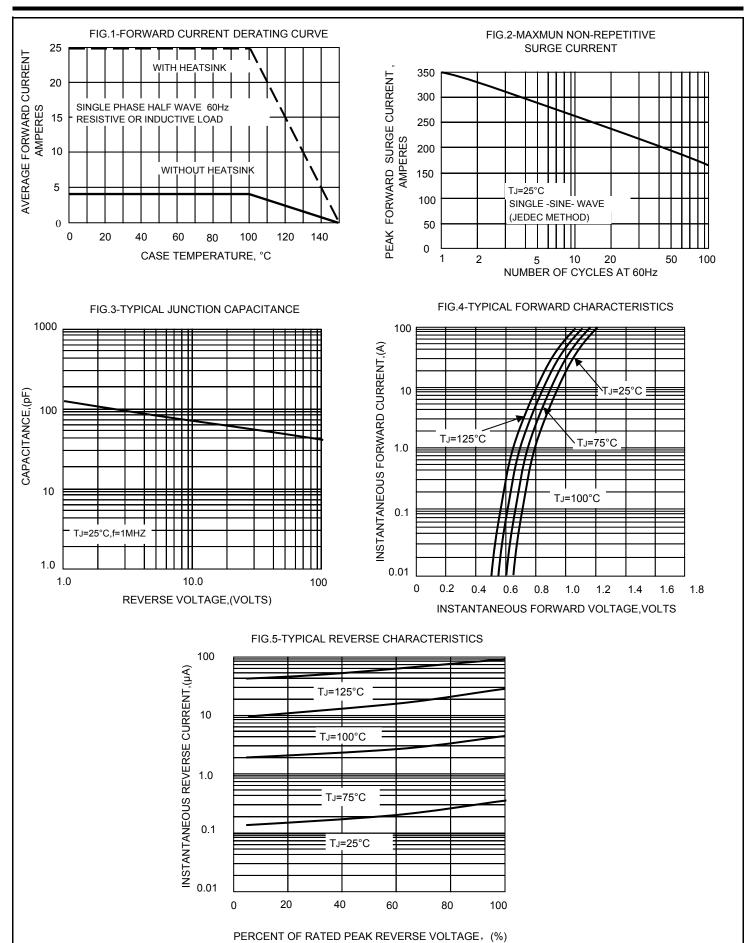
CHARACTERISTICS	SYMBOL	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100℃ (without heatsink)	l(AV)	25.0 4.2							А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	Ігѕм	350							А
Maximum Forward Voltage at 12.5A DC	VF	1.0							V
Maximum DC Reverse Current @ TJ=25℃ at Rated DC Blocking Voltage @ TJ=125℃	lR	5.0 500							μΑ
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	508							A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	СJ	85							pF
Typical Thermal Resistance to Ambient (Note2)	RөJA	4.5 0.6							°C/W
Typical Thermal Resistance to case( Note2)	Rejc								
Typical Thermal Resistance to lead (Note2)	Røjl	1.5							
Operating Temperature Range	TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}\!\mathbb{C}$

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.
- 3.The typical data above is for reference only(# 型值仅供参考).

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The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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