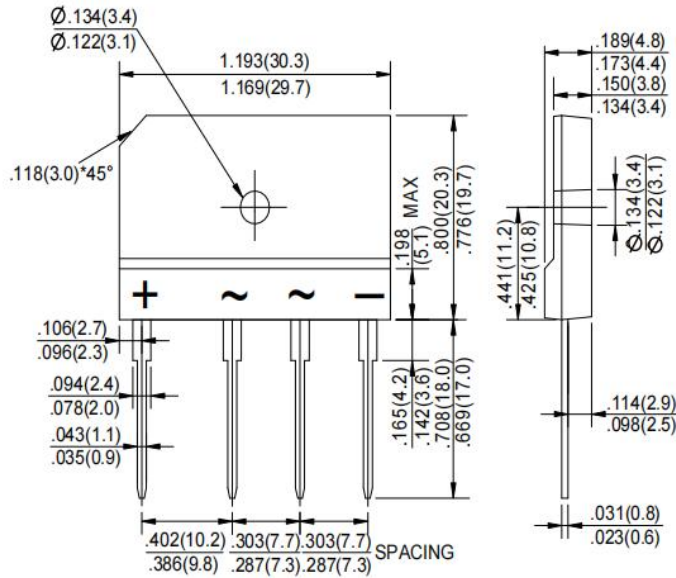


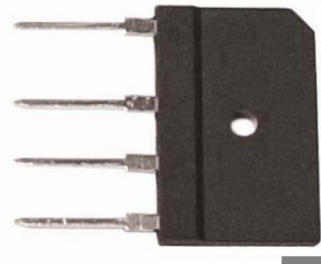
GBJ25005 thru GBJ2510

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



Dimensions in inches and (millimeters)

Package: GBJ



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%

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) @ Tc=100°C (without heatsink)	I(AV)	25.0 4.2							A
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 ² t Rating for Fusing (t<8.3ms)	I ² t	510							A ² 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

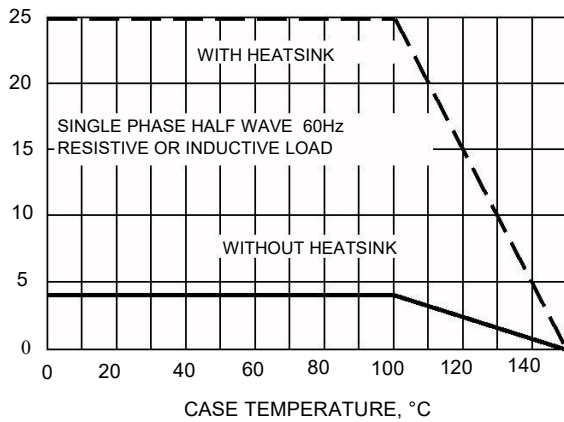


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

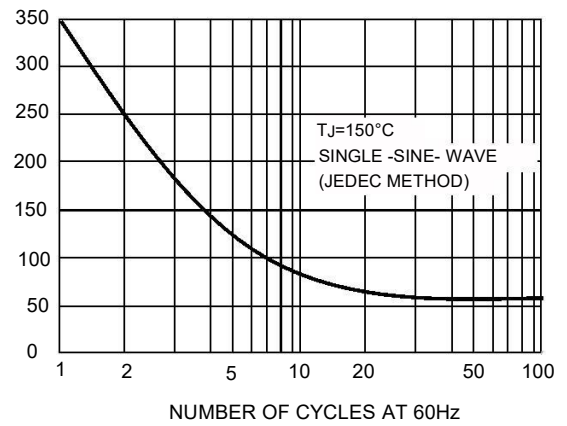


FIG.3-TYPICAL JUNCTION CAPACITANCE

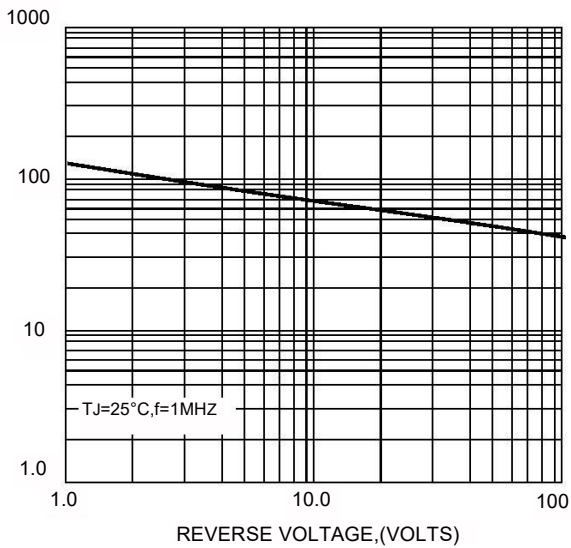


FIG.4-TYPICAL FORWARD CHARACTERISTICS

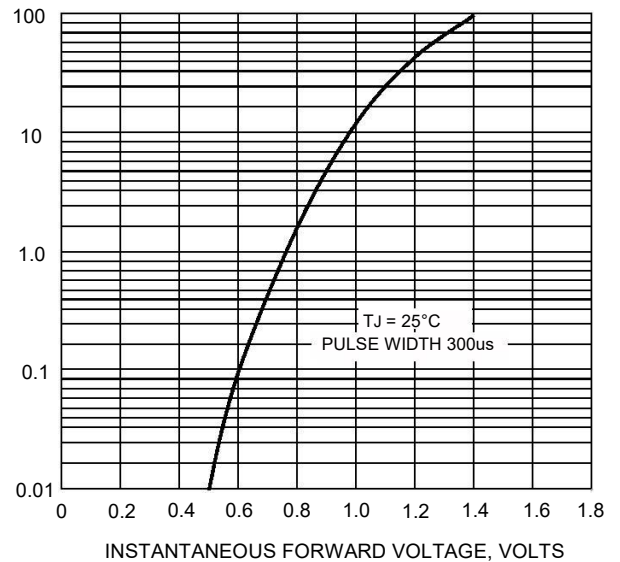


FIG.5-TYPICAL REVERSE CHARACTERISTICS

