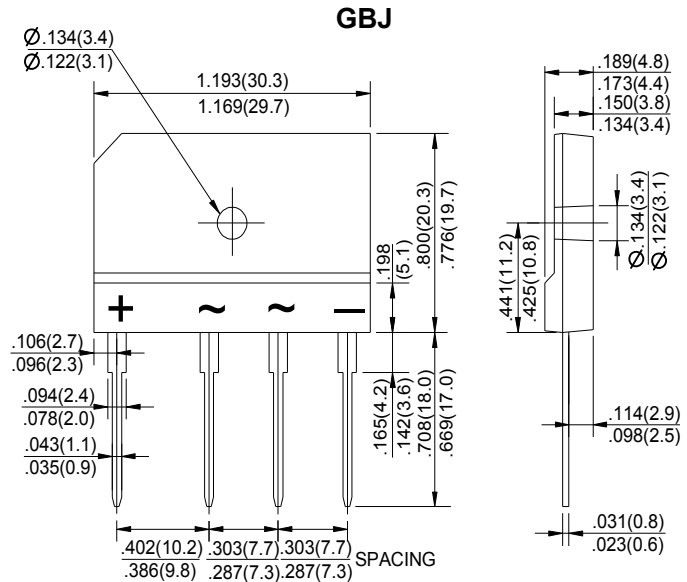


RoHS Compliant Product  
A suffix of "-C" specifies halogen-free.

**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



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 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 10005	GBJ 1001	GBJ 1002	GBJ 1004	GBJ 1006	GBJ 1008	GBJ 1010	UNIT	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	v	
Maximum RMS Voltage	V <sub>RMS</sub>	30	70	140	280	420	560	700	v	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	v	
Maximum Average Forward Rectified Current (with heatsink Note 2) @ T <sub>c</sub> =110 °C (without heatsink)	I <sub>(AV)</sub>	10.0				3.0				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	220								A
Maximum Forward Voltage at 5.0A DC	V <sub>F</sub>	1.1								V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T <sub>J</sub> =25°C @ T <sub>J</sub> =125°C	I <sub>R</sub>	10.0				500				uA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	120								A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	C <sub>J</sub>	55								pF
Typical Thermal Resistance (Note2)	R <sub>θJC</sub>	1.4								°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150								°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150								°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2.Device mounted on 150mm\*150mm\*1.6mm cu plate heatsink.

**● RATING AND CHARACTERISTIC CURVES**

FIG.1-FORWARD CURRENT DERATING CURVE

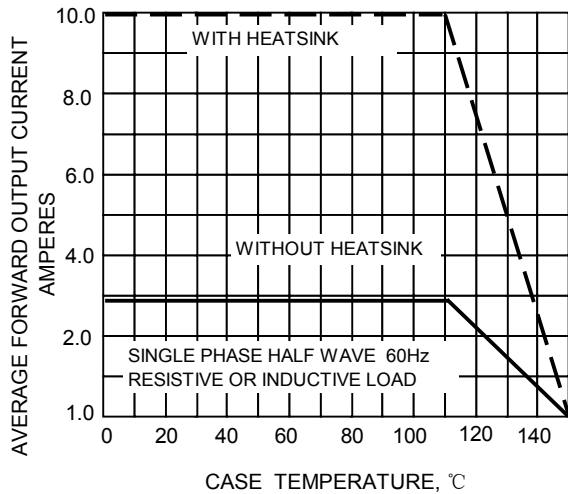


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

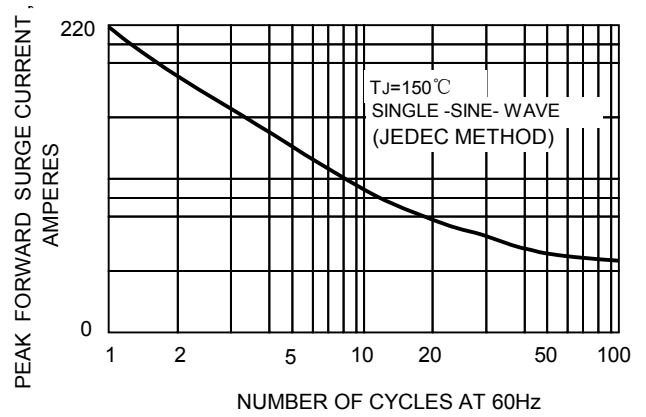


FIG.3-TYPICAL JUNCTION CAPACITANCE

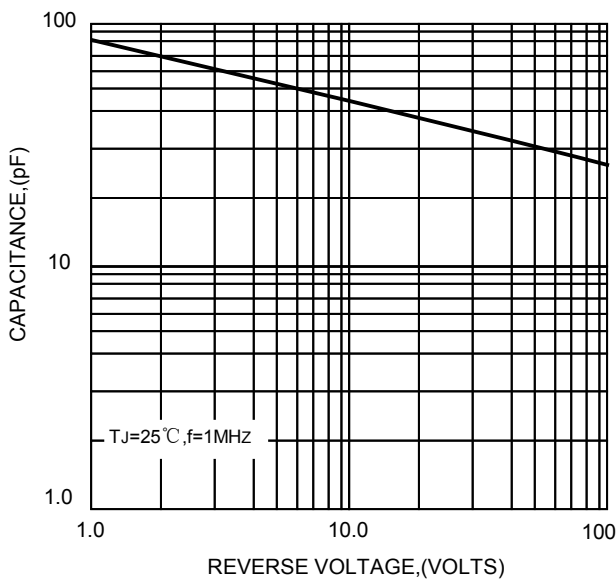


FIG.4-TYPICAL FORWARD CHARACTERISTICS

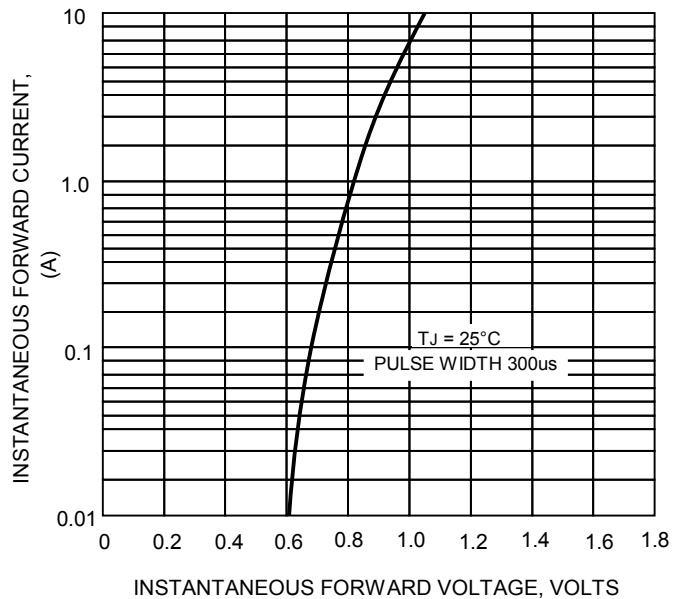


FIG.5-TYPICAL REVERSE CHARACTERISTICS

