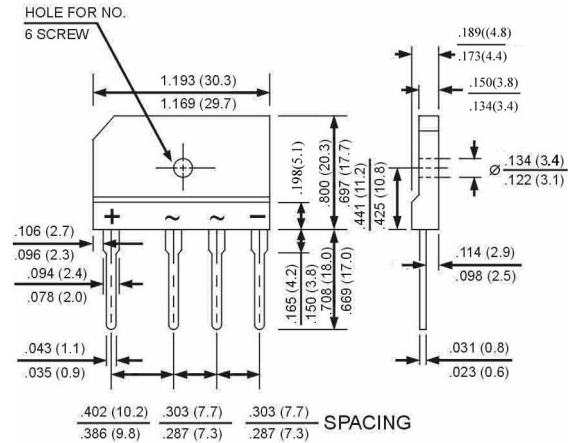


RoHS Compliant Product
 A suffix of "-C" specifies halogen-free.

● 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
- Mounting position: Any



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%.

TYPE NUMBER	SYMBOL	GBJ25005	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward (with heatsink Note2) Rectified Current @ $T_c=100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$					25.0				A
Peak Forward Surge Current 8.3 ms single half sine-wave super imposed on rated load (JEDEC method)	I_{FSM}					340				A
Maximum Forward Voltage at 12.5A	V_F					1.1				V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a=125^\circ\text{C}$	I_R					10				μA
I^2t Rating for fusing ($t<8.3\text{ms}$)	I^2t					510				A^2S
Typical Junction Capacitance per element (Note1)	C_J					85				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$					0.6				$^\circ\text{C} / \text{W}$
Operating Temperature Range	T_J					- 55 ~ + 150				$^\circ\text{C}$
Storage Temperature Range	T_{STG}					- 55 ~ + 150				$^\circ\text{C}$

NOTES:

- Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

● RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

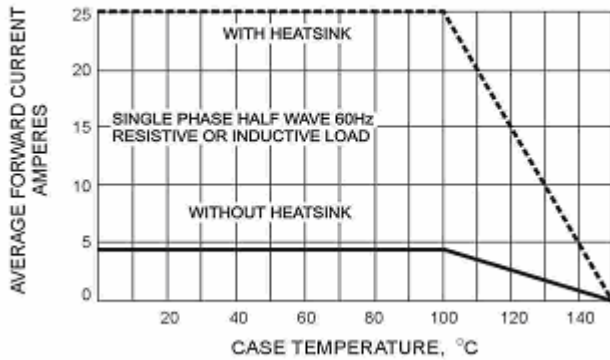


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

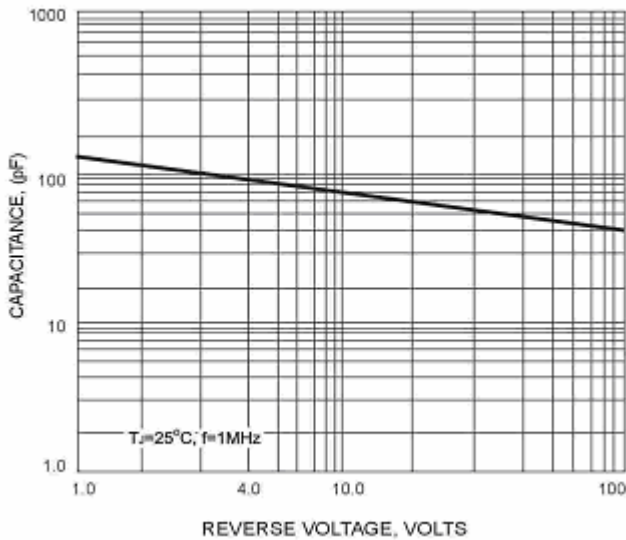


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

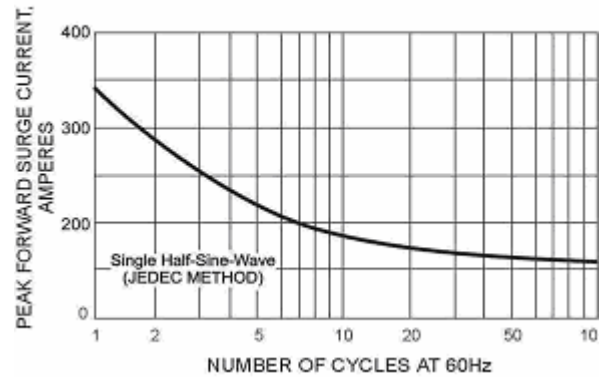


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

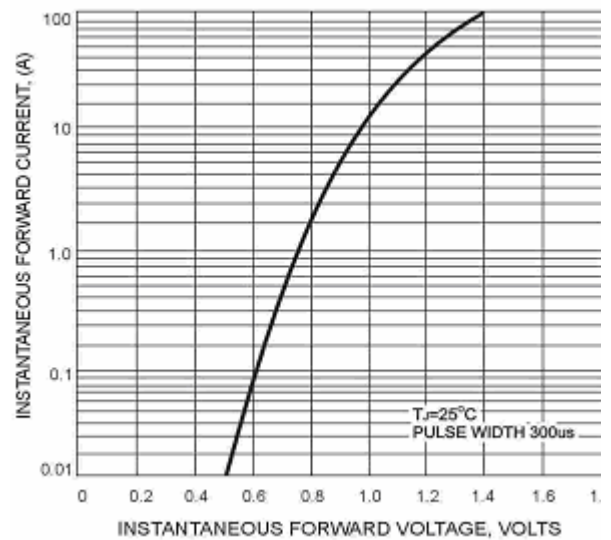


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

