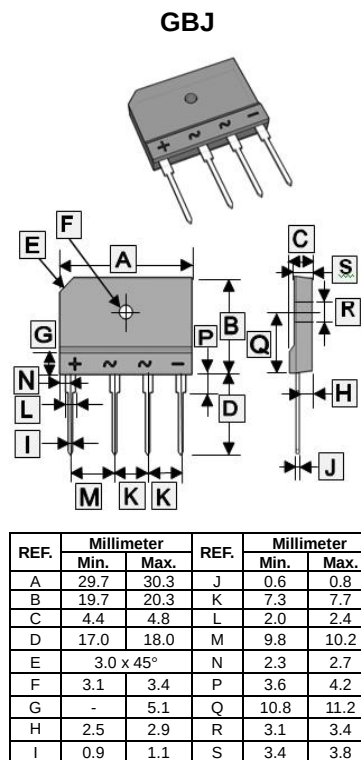


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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 Underwriters Laboratory flammability classification 94V-0



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, de-rate current by 20%.)

Parameter		Symbol	Part Number							Unit
			GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 heat sink) ²		I _(AV)	25							A
Rectified Current @T _C =100°C (without heat sink)			4.2							
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		I _{FSM}	350							A
Maximum Forward Voltage @ 12.5A DC		V _F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C	I _R	10							μA
	T _J =125°C		500							
I ² t Rating for Fusing (t<8.3ms)		I ² _t	510							A ² s
Typical Junction Capacitance Per Element ¹		C _J	85							pF
Typical Thermal Resistance		R _{θJC}	0.6							°C/W
Operating and Storage temperature range		T _J , T _{STG}	-55~150							°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 heat sink.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

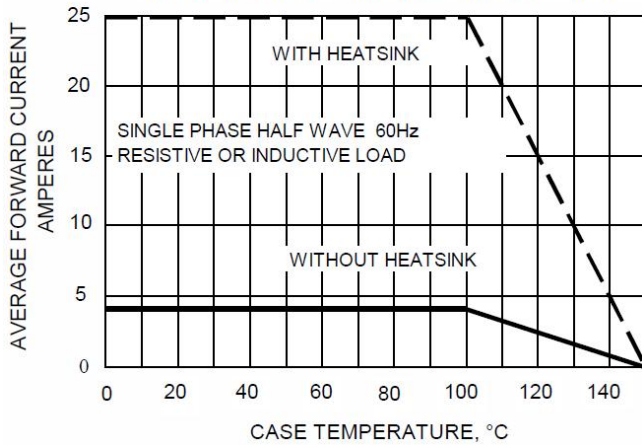


FIG.2-MAXIMUM NON-REPETITIVE
SURGE CURRENT

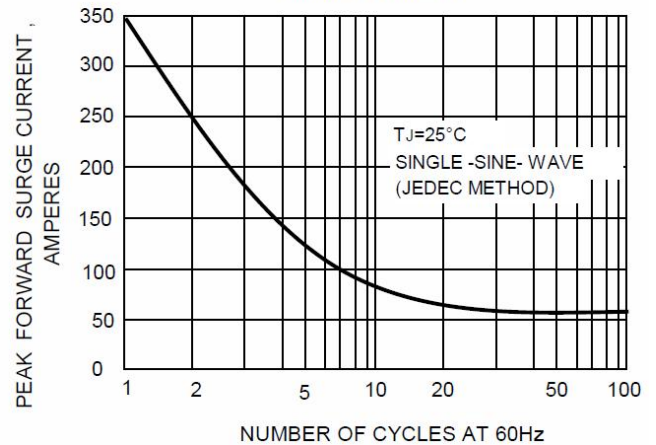


FIG.3-TYPICAL JUNCTION CAPACITANCE

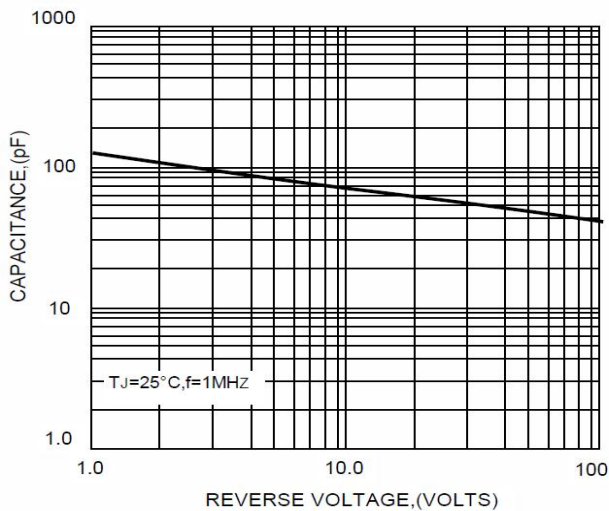


FIG.4-TYPICAL FORWARD CHARACTERISTICS

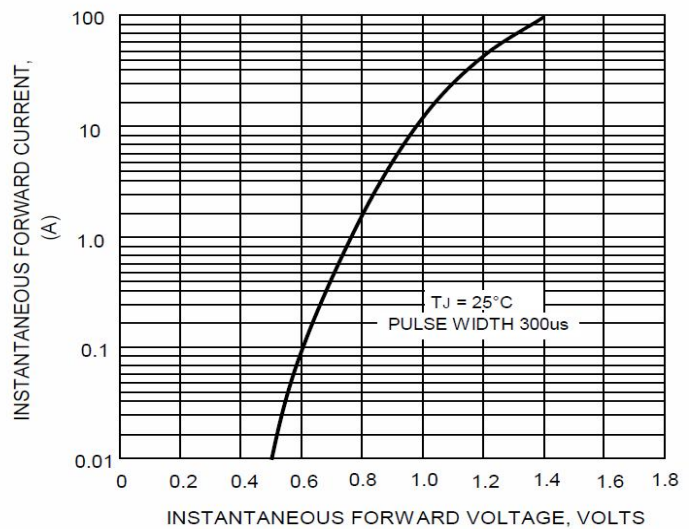


FIG.5-TYPICAL REVERSE CHARACTERISTICS

