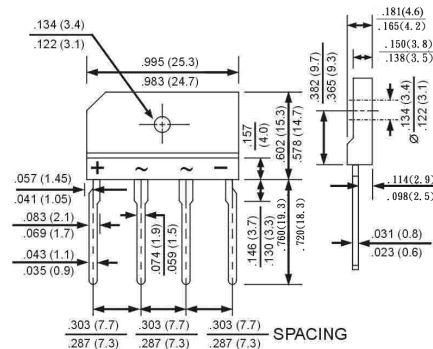


RoHS Compliant Product
A suffix of "-C" specifies halogen-free.

● FEATURES

- Surge overload rating – 125 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing Molded plastic technique
- Plastic material has underwrites laboratory Flammability classification 94V-0
- Polarity: marked on body
- Mounting position: Any



Dimensions in inches and (millimeters)

● MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 °C ambient temperature unless otherwise specified.
Resistive or inductive load, 60Hz,
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	GBJ6A	GBJ6B	GBJ6D	GBJ6G	GBJ6J	GBJ6K	GBJ6M	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 Rectified Current @ $T_C=100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$	6.0							2.8	A
Peak Forward Surge Current, 8.3 ms single half Sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	170								A
Maximum Forward Voltage at 2.0A	V_F	1.0								V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a=125^\circ\text{C}$	I_R	5.0								μA
I^2t Rating for fusing ($t < 8.3\text{ms}$)	I^2t	120								A^2S
Typical Junction Capacitance per element (Note1)	C_J	55								pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.8								$^\circ\text{C} / \text{W}$
Operating Temperature Range	T_J	- 55 ~ + 150								$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 55 ~ + 150								$^\circ\text{C}$

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

● RATING AND CHARACTERISTIC CURVES

Fig. 1 - Forward Current Derating Curve

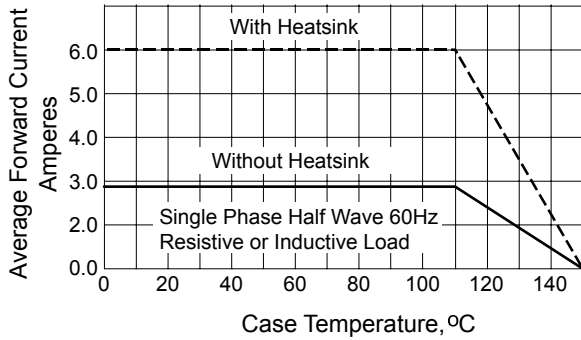


Fig. 2 - Maximum Non-Repetitive Surge Current

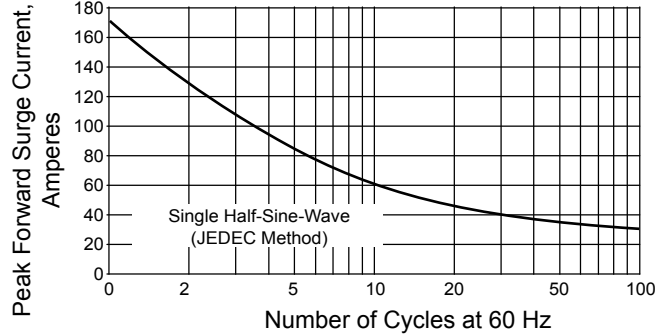


Fig. 3 - Typical Junction Capacitance

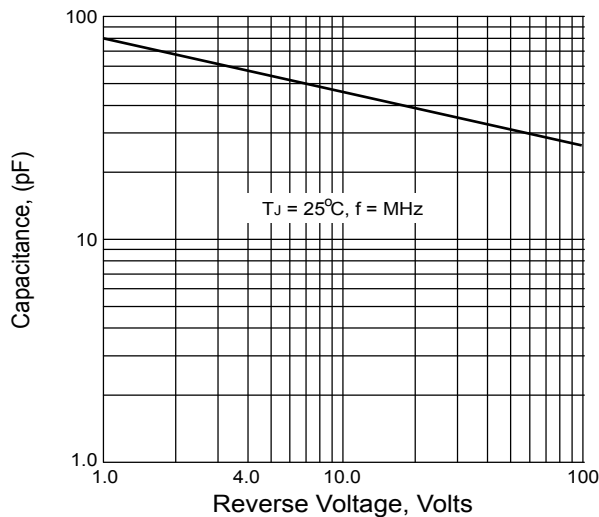


Fig. 4 - Typical Forward Characteristics

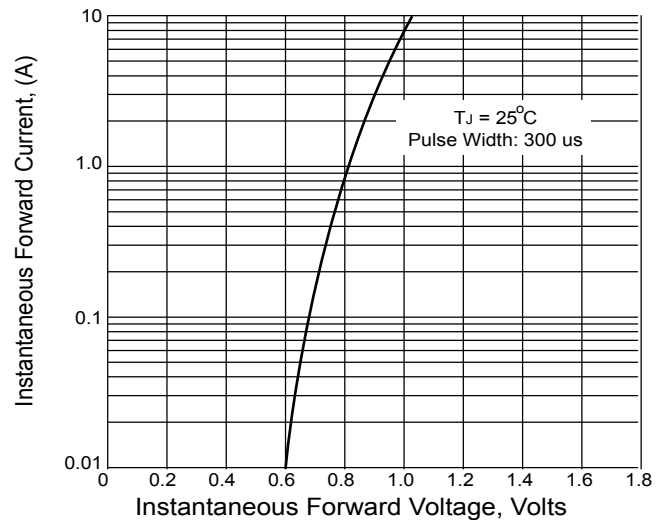


Fig. 5 - Typical Reverse Characteristics

