GBU6A thru GBU6M SERIES

SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS

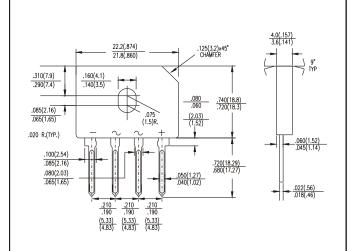




FEATURES

- Surge overload rating-175 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory
 Flammability classification 94V-O
- Mounting Position: Any

REVERSE VOLTAGE -50 to 1000 Volts FORWARD CURRENT -6.0 Amperes



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward (with heatsink Note2) Rectified Current @ T _C =100°C (without heatsink)	I _(AV)			•	6.0 2.8				Α
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	175						A	
Maximum DC Forward Voltage at 3.0A DC	V _F	1.0						٧	
Maximum DC Reverse Current @ T _A =25°C at rated DC Blocking Voltage @ T _A =125°C	I _R	5.0 500						μ Α	
I ² t Rating for fusing (t<8.3ms)	l ² t	127					A ² S		
Typical Junction Capacitance per element(Note1)	СЈ	50						РF	
Typical Thermal Resistance (Note2)	$R\theta JC$				2.2				°C/W
Operating Temperature Range	T _J	-55 to +150					°C		
Storage Temperature Range	T _{STG}				-55 to +150)			°C

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 75mm x 75mm X 1.6mm Cu Plate Heatsink.

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RATING AND CHARACTERISTICS CURVES GBU6A THRU GBU6M

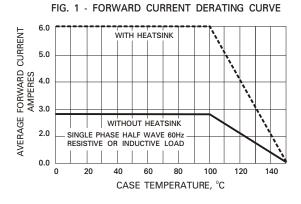


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

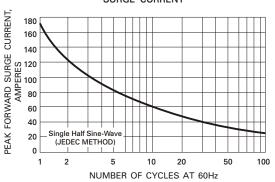


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

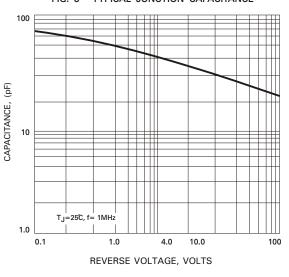


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

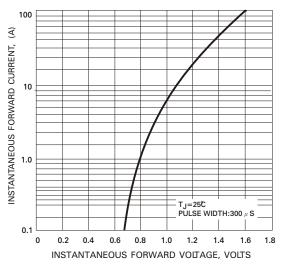


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

