

## GBUL1006 ~ GBUL1008

PRV : 600 - 800 Volts

Io : 10 Amperes

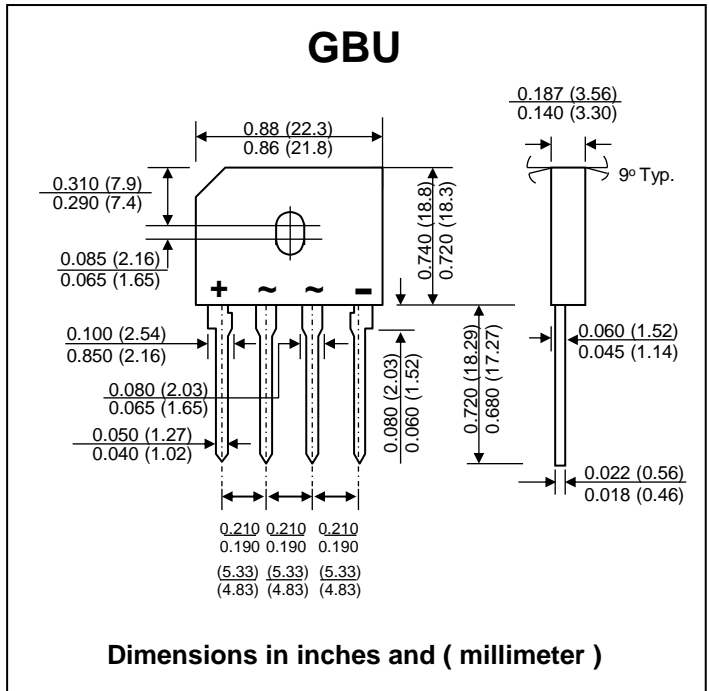
### FEATURES :

- \* High surge current capability
- \* Low forward voltage drop
- \* Ideal for printed circuit board
- \* Pb / RoHS Free

### MECHANICAL DATA :

- \* Case : GBU
- Molding compound meets UL 94 V-0 flammability rating
- \* Terminals : Tin Plated lead solderable per J-STD-002 and JESD22-B102
- \* Polarity : As marked on body
- \* Mounting position : Any
- \* Weight : 3.97 grams

## SILICON BRIDGE RECTIFIERS



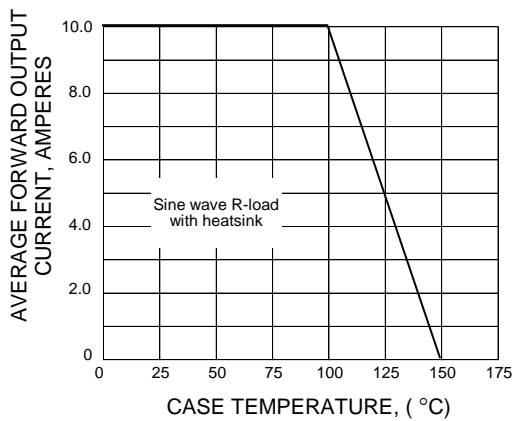
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ta = 25°C Unless otherwise specified

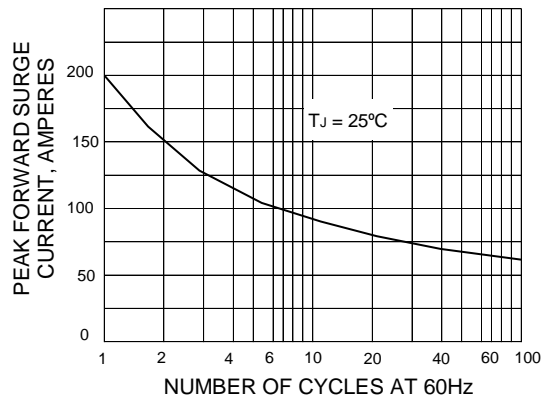
RATING	SYMBOL	GBUL1006	GBUL1008	UNIT
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	600	800	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	10.0 3.6		A
Maximum Peak Forward Surge Current (Single sine-wave Superimposed on rated load )	$I_{FSM}$	200		A
Current squared time @ 1ms ≤ t ≤ 8.3ms	$i^2t$	166		A <sup>2</sup> s
Maximum Instantaneous Forward Voltage drop per leg at $I_F = 5.0$ A	$V_F$	0.92		V
Maximum DC Reverse Current at Rated DC Blocking Voltage per diode	$I_R$	10.0		μA
Typical Thermal Resistance, Junction to Case	$R_{\theta JC}$	2.3		°C/W
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	25		°C/W
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	- 55 to + 150		°C
Mounting torque @ recommend torque: 5kg.cm	Tor	8		kg.cm

## RATING AND CHARACTERISTIC CURVES ( GBUL1006 ~ GBUL1008 )

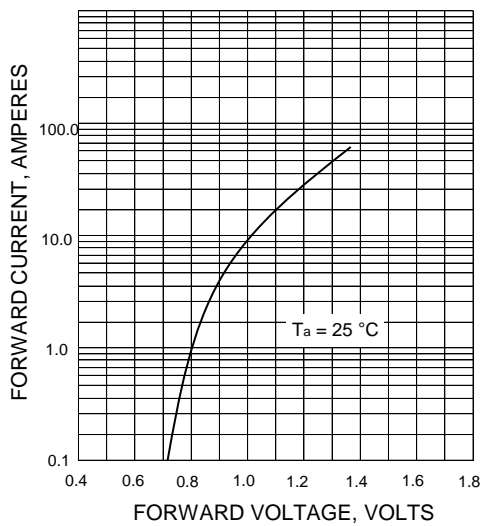
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER LEG**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER LEG**

