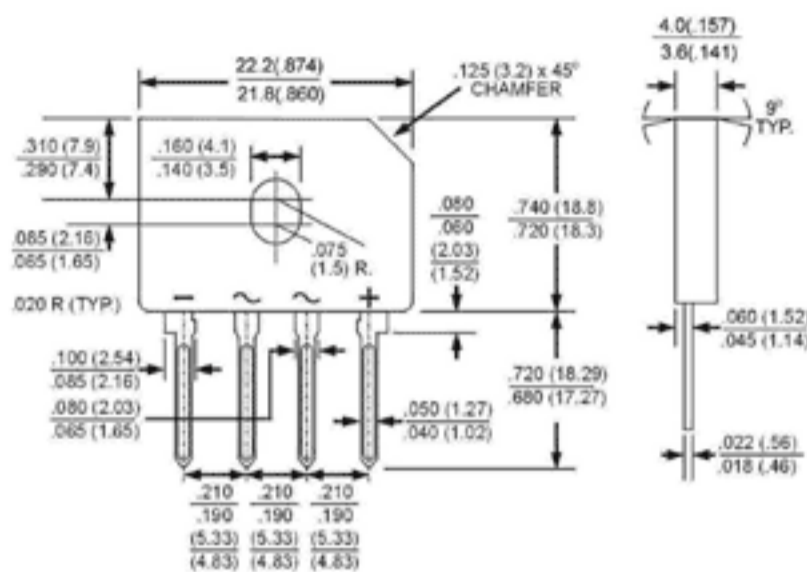


SILICON BRIDGE RECTIFIERS
REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 6.0 Amperes
FEATURES

- Surge overload rating - 170 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory Flammability classification 94V-0
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS	SYMBOL	GBU 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	UNIT	
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 @ $T_C=100^\circ C$ (with heatsink Note 2) @ $T_C=100^\circ C$ (without heatsink)	I_{AV}					6.0				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I_{FSM}					170				A
Maximum Forward Voltage at 3.0A DC	V_F					1.0				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J=25^\circ C$ @ $T_J=125^\circ C$	I_R					5.0				μA
$I^2 t$ Rating for fusing ($t < 8.3ms$)	$I^2 t$					127				$A^2 S$
Typical Junction Capacitance per element (Note 1)	C_J					50				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$					2.2				$^\circ C/W$
Operating Temperature Range	T_J					-40 to +125				$^\circ C$
Storage Temperature Range	T_{STG}					-40 to +125				$^\circ C$

 NOTES: 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.