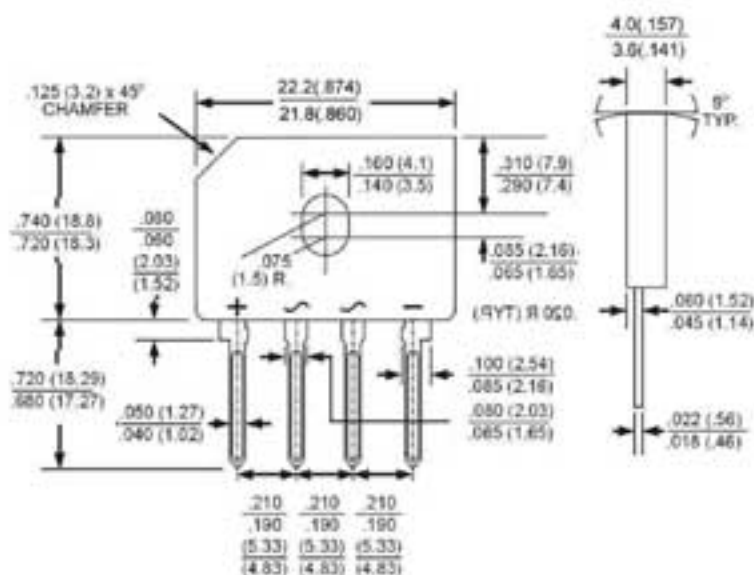


## GLASS PASSIVATED BRIDGE RECTIFIERS

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(G)	GBU 601(G)	GBU 602(G)	GBU 604(G)	GBU 606(G)	GBU 608(G)	GBU 610(G)	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>c</sub> =100°C (without heatsink)	I <sub>AV</sub>					6.0			A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I <sub>FSM</sub>					170			A
Maximum Forward Voltage at 3.0A DC	V <sub>F</sub>					1.1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>j</sub> =25°C @T <sub>j</sub> =125°C	I <sub>R</sub>					5.0			uA
I <sup>2</sup> t Rating for fusing (t<8.3ms)	I <sup>2</sup> t					127			A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>					50			pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>					2.2			°C/W
Operating Temperature Range	T <sub>J</sub>					-55 to +150			°C
Storage Temperature Range	T <sub>STG</sub>					-55 to +150			°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.