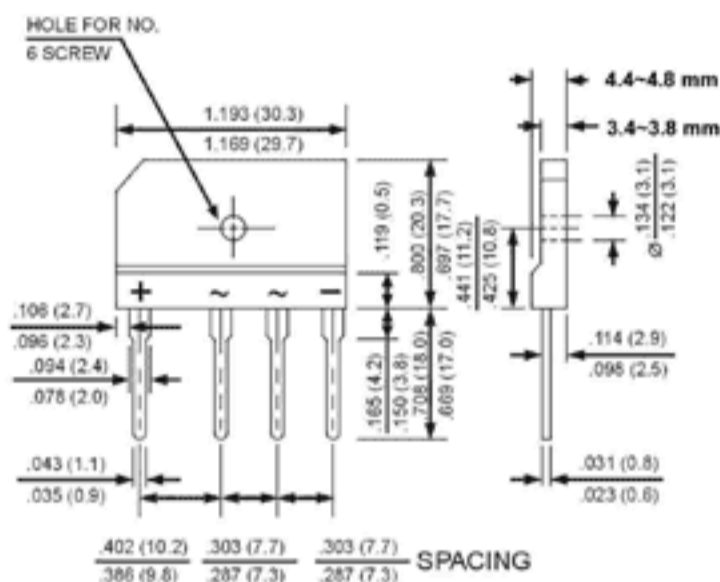


**GLASS PASSIVATED  
BRIDGE RECTIFIERS**
**REVERSE VOLTAGE - 50 to 1000 Volts**  
**FORWARD CURRENT - 10 Amperes**
**FEATURES**

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0



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	GBJ 10A	GBJ 10B	GBJ 10D	GBJ 10G	GBJ 10J	GBJ 10K	GBJ 10M	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 Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @T <sub>C</sub> =110°C (with heatsink Note 2) @T <sub>C</sub> =110°C (without heatsink)	I <sub>AV</sub>					10.0				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I <sub>FSM</sub>					200				A
Maximum Forward Voltage at 5.0A 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					120				A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>					55				pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>					1.4				°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 150mm x 150mm x 1.6mm Cu Plate Heatsink.