

# G2SBA480-E

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 800V

Current: 4.0A

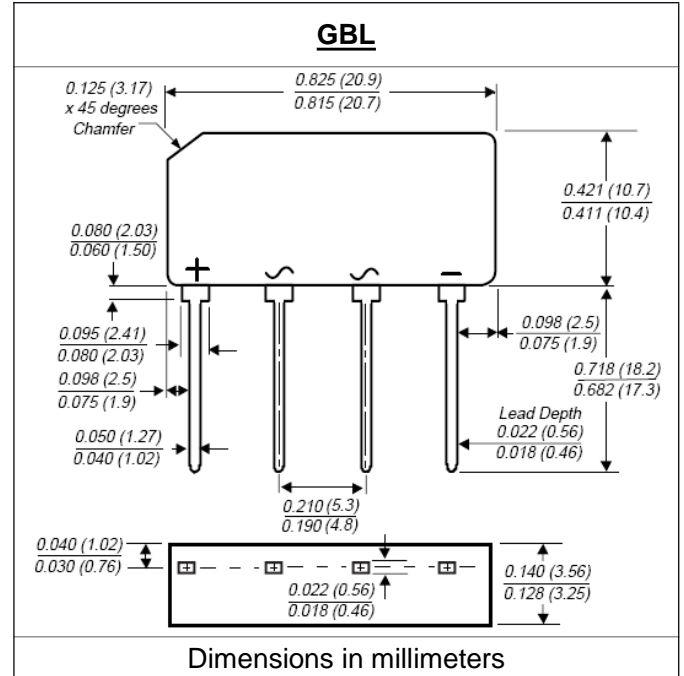


### Features

Plastic package has Underwriters Laboratory Flammability Classification 94V-0  
 Glass passivated chip junction  
 High case dielectric strength  
 Typical  $I_R$  less than  $0.1 \mu A$   
 High surge current capability  
 Ideal for printed circuit board  
 High temperature soldering guaranteed:  
 260 °C /10 seconds, 0.375"(9.5mm) lead length, 5lbs.(2.3kg) tension

### Mechanical Data

Terminal: Plated leads solderable per MIL-STD 750, Method 2026  
 Case: Molded plastic body over passivated junctions  
 Polarity: Polarity symbol marked on body  
 Mounting position: any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

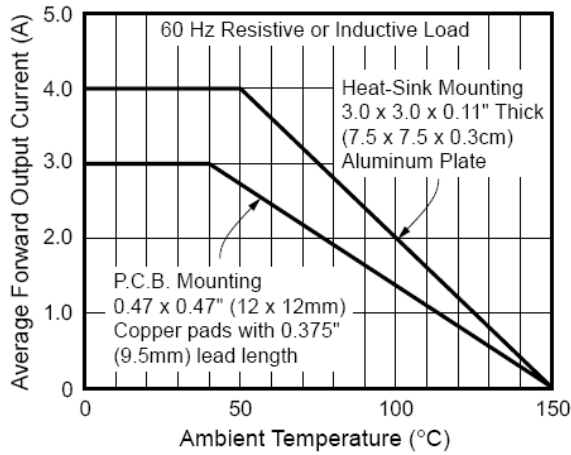
	Symbol	G2SBA480-E	units
Maximum repetitive peak reverse voltage	V <sub>rrm</sub>	800	V
Maximum RMS voltage	V <sub>rms</sub>	560	V
Maximum DC blocking voltage	V <sub>dc</sub>	800	V
Maximum average forward rectified output current	I <sub>f(av)</sub>	4.0 3.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I <sub>fsm</sub>	120	A
Maximum instantaneous forward voltage drop per leg at 2.0A	V <sub>f</sub>	1.0	V
Rating for fusing (t < 8.3ms)	I <sup>2</sup> t	60	A <sup>2</sup> Sec
Maximum DC reverse current at rated DC blocking voltage per leg	I <sub>r</sub>	5.0 500	$\mu A$
Maximum thermal resistance per leg	R <sub>th(ja)</sub> R <sub>th(jc)</sub>	47.0 10.0	°C/W
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150	°C

**Note:**

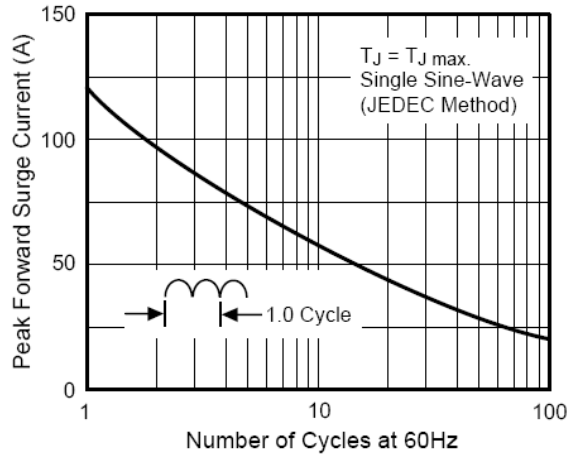
- Unit mounted on P.C.B. with 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3 cm) Aluminum plate
- Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads
- Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

## RATINGS AND CHARACTERISTIC CURVES G2SBA480-E

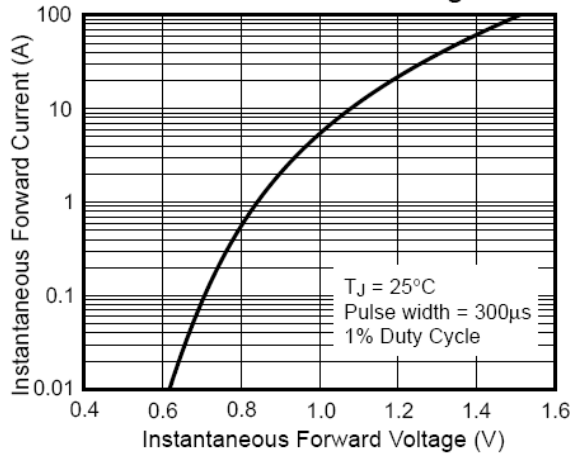
**Fig. 1 – Derating Curves Output Rectified Current**



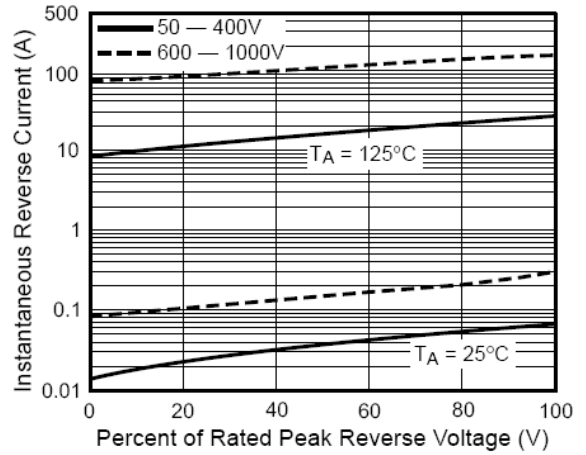
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



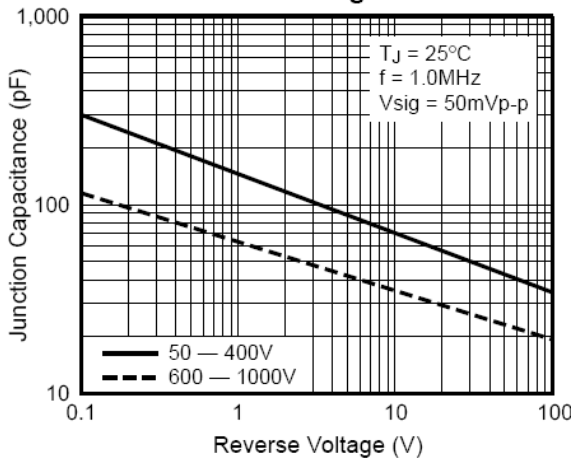
**Fig. 3 – Typical Forward Voltage Characteristics Per Leg**



**Fig. 4 – Typical Reverse Leakage Characteristics Per Leg**



**Fig. 5 – Typical Junction Capacitance Per Leg**



**Fig. 6 – Typical Transient Thermal Impedance Per Leg**

