

# G2SBA460 THRU G2SBA480

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V to 800V

Current: 4.0A

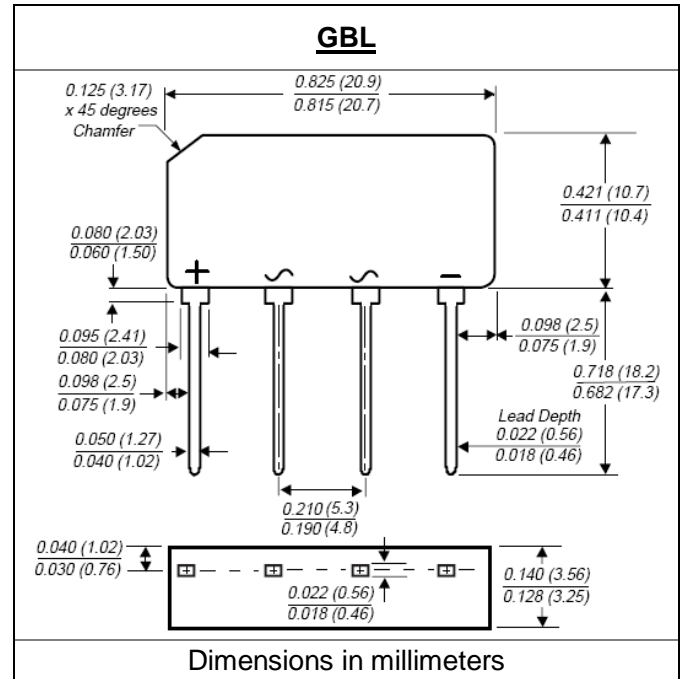


### Features

Glass passivated chip junction  
High case dielectric strength  
High surge current capability  
Ideal for printed circuit board  
This series is UL listed under Recognized Component Index, file number E330278

### Mechanical Data

Terminal: Plated leads solderable per J-STD-002  
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy  
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)

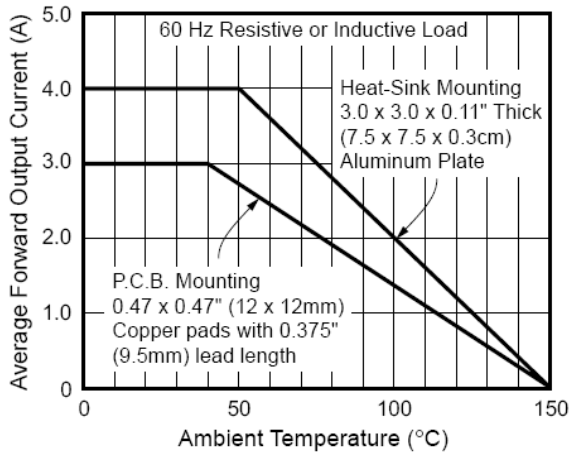
	Symbol	G2SBA460	G2SBA480	units
Maximum repetitive peak reverse voltage	V <sub>rrm</sub>	600	800	V
Maximum RMS voltage	V <sub>rms</sub>	420	560	V
Maximum DC blocking voltage	V <sub>dc</sub>	600	800	V
Maximum average forward rectified output current	I <sub>f(av)</sub>	4.0 3.0		A
Peak forward surge current 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		μA
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:

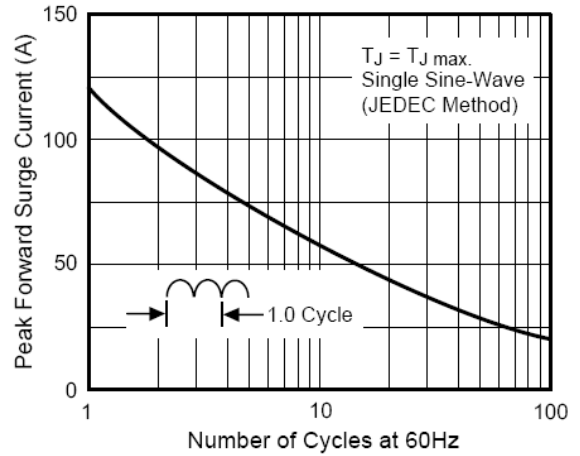
- Unit mounted on P.C.B. with 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3 cm) Aluminum plate
- Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads
- Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer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

## RATINGS AND CHARACTERISTIC CURVES G2SBA460 THRU G2SBA480

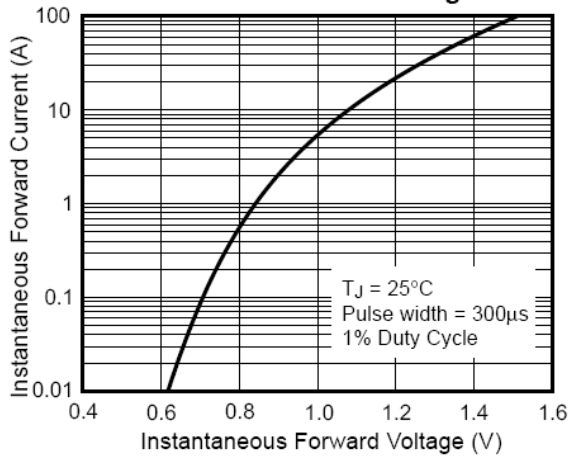
**Fig. 1 – Derating Curves Output Rectified Current**



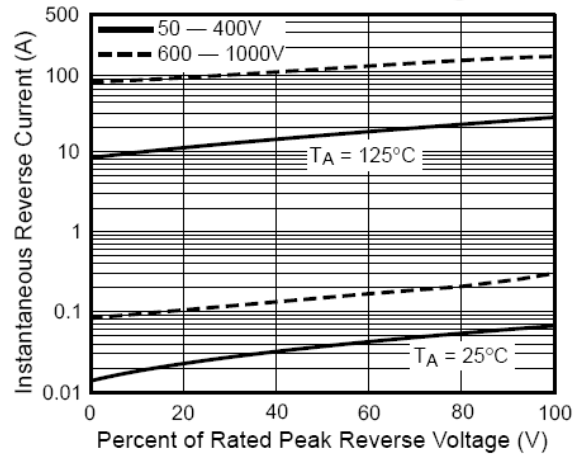
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



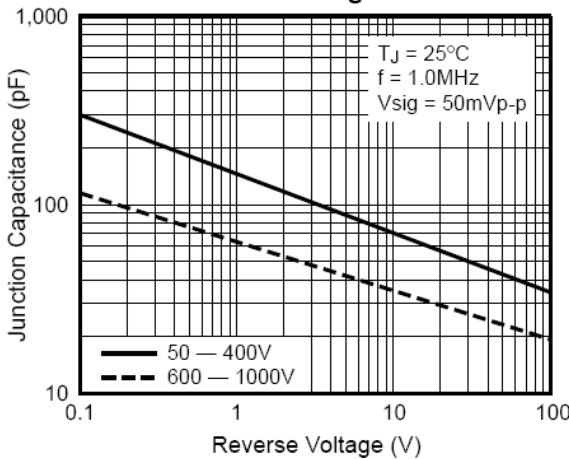
**Fig. 3 – Typical Forward Voltage Characteristics Per Leg**



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



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



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

