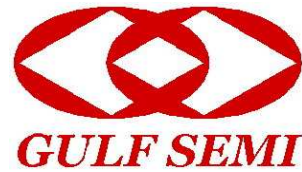


# G2SB460-E THRU G2SB480-E

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V to 800V

Current: 4.0A

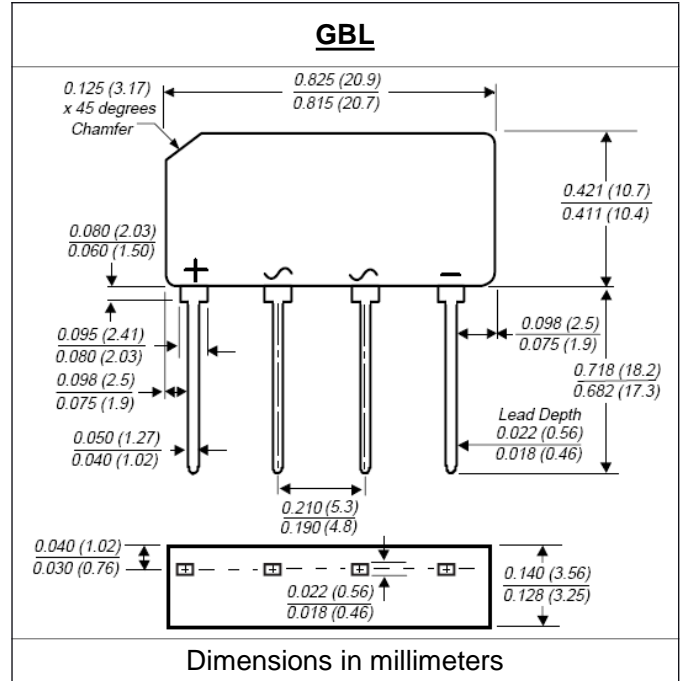


### Features

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 boards  
High temperature soldering guaranteed:  
260°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg)  
tension  
Halogen Free

### Mechanical Data

Case: Molded plastic body over passivated junctions  
Terminals: Plated leads solderable per MIL-STD-750,  
Method 2026  
Mounting Position: Any  
Weight: 0.071 oz., 2.0 g



### 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%)

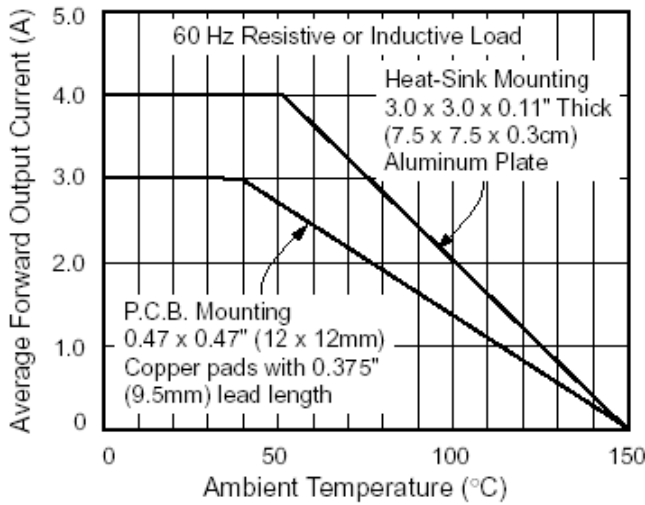
	Symbol	G2SB460-E	G2SB480-E	units
Maximum Recurrent Peak Reverse Voltage	$V_{rrm}$	600	800	V
Maximum RMS Voltage	$V_{rms}$	420	560	V
Maximum DC blocking Voltage	$V_{dc}$	600	800	V
Maximum average forward rectified output current at	$I_f(av)$	4.0 3.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	$I_{fsm}$	150		A
Maximum Instantaneous Forward Voltage at forward current 2.0A	$V_f$	1.0		V
Rating for fusing ( $t < 8.3ms$ )	$I^2t$	93		A <sup>2</sup> Sec
Maximum DC Reverse Current at rated DC blocking voltage	$I_r$	5.0 500		$\mu A$
Typical thermal resistance per leg	$R_{th(ja)}$ $R_{th(jl)}$	47 10		°C/W
Storage and Operation Junction Temperature	$T_j, T_{stg}$	-55 to +150		°C

Note:

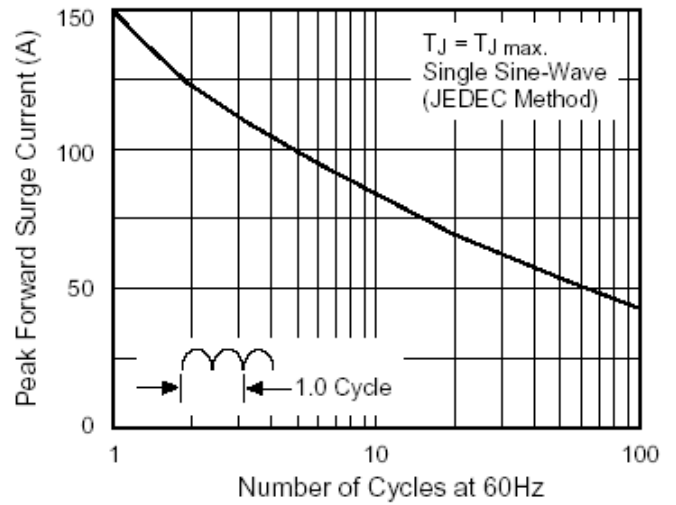
- Unit mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3 cm) Aluminum plate
- Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads

**RATINGS AND CHARACTERISTIC CURVES G2SB460-E THRU G2SB480-E**

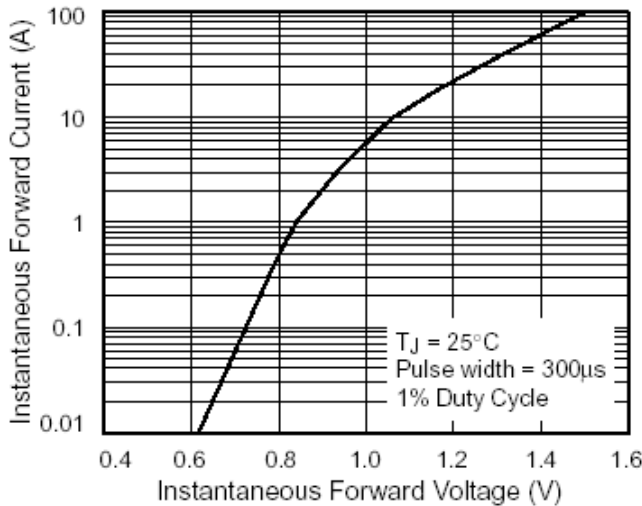
**Fig. 1 -- Derating Curves Output Rectified Current**



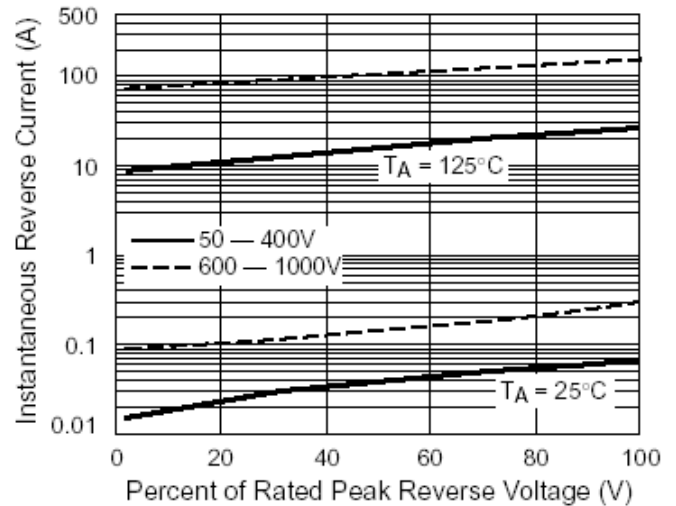
**Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



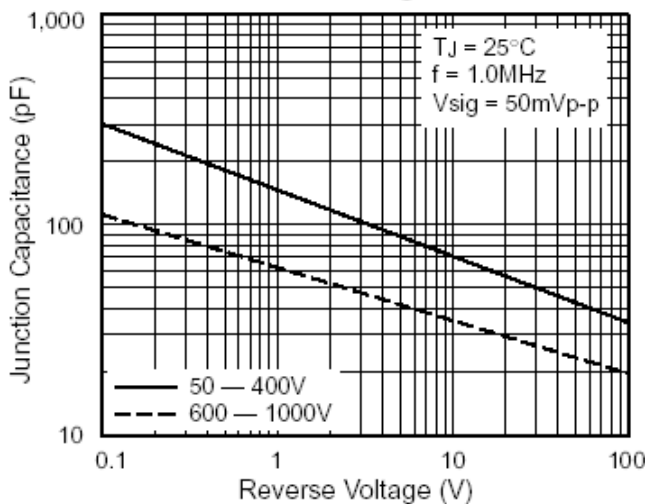
**Fig. 3 -- Typical Forward Voltage Characteristics Per Leg**



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



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



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

