

G2SB460-E THRU G2SB480-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V to 800V

Current: 4.0A

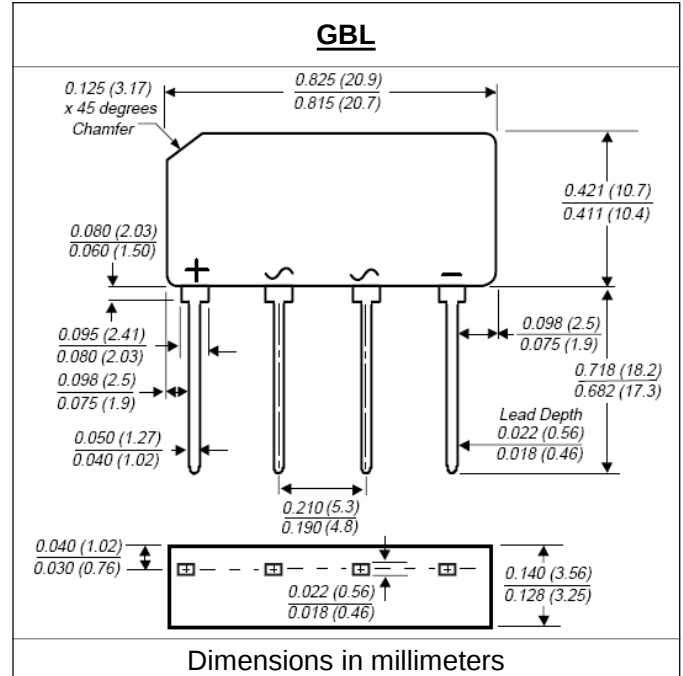


Features

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 $T_c=50^\circ C$ (Note1) $T_a=40^\circ C$ (Note2)	$I_{f(av)}$	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 ² Sec
Maximum DC Reverse Current at rated DC blocking voltage $T_a = 25^\circ C$ $T_a = 125^\circ C$	I_r	5.0 500		μA
Typical thermal resistance per leg	$R_{th(ja)}$ $R_{th(jl)}$	47 10		$^\circ C/W$
Storage and Operation Junction Temperature	T_j, T_{stg}	-55 to +150		$^\circ C$

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

Fig. 1 -- Derating Curves Output Rectified Current

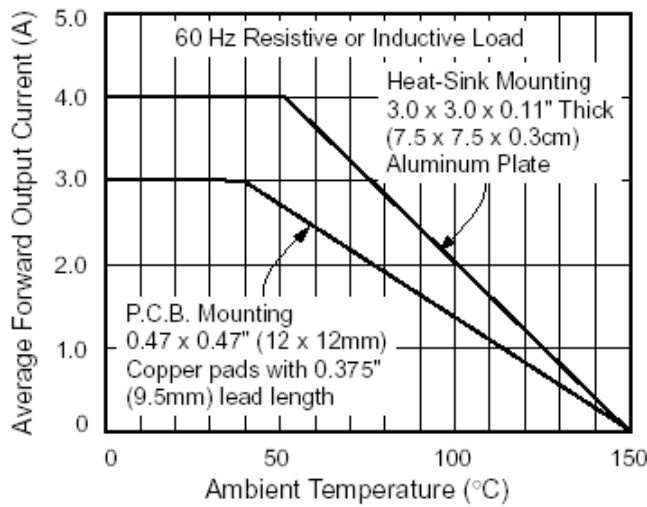


Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg

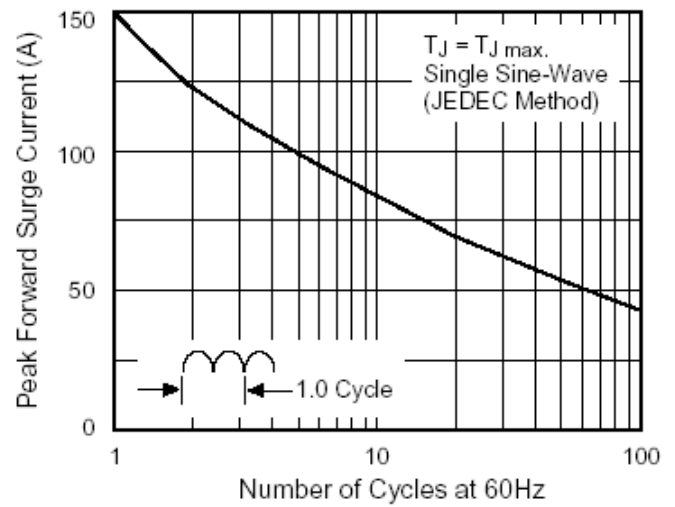


Fig. 3 -- Typical Forward Voltage Characteristics Per Leg

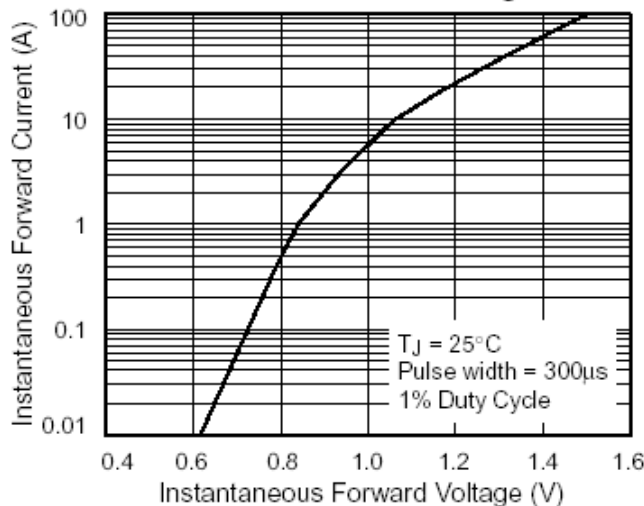


Fig. 4 -- Typical Reverse Leakage Characteristics Per Leg

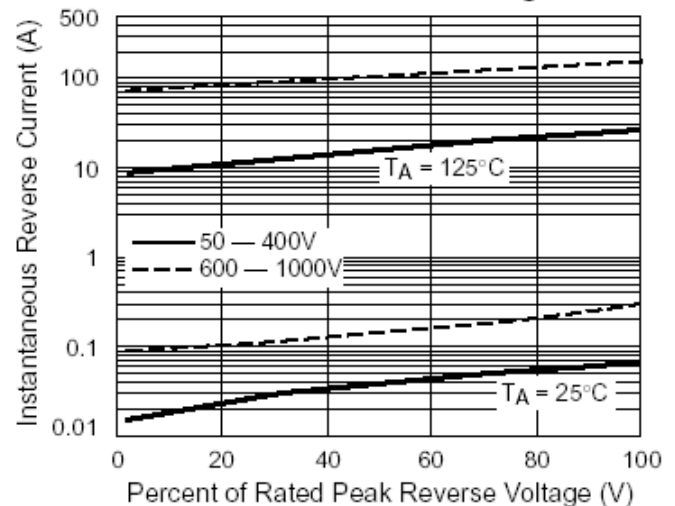


Fig. 5 -- Typical Junction Capacitance Per Leg

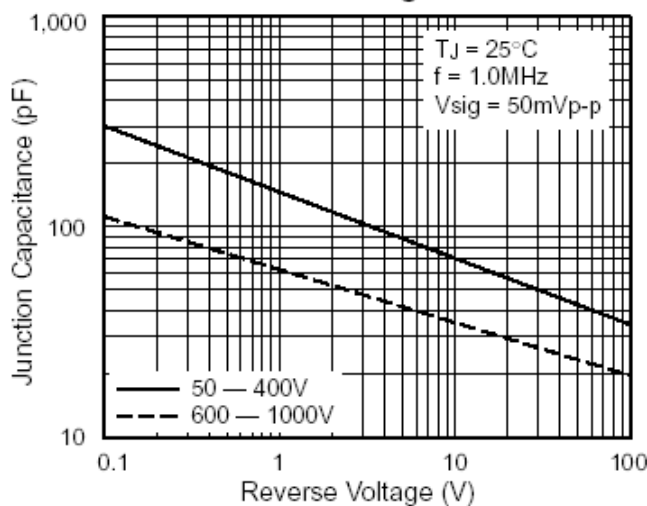


Fig. 6 -- Typical Transient Thermal Impedance Per Leg

