

G2SB460-E THRU G2SB480-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V to 800V

Current: 4.0A

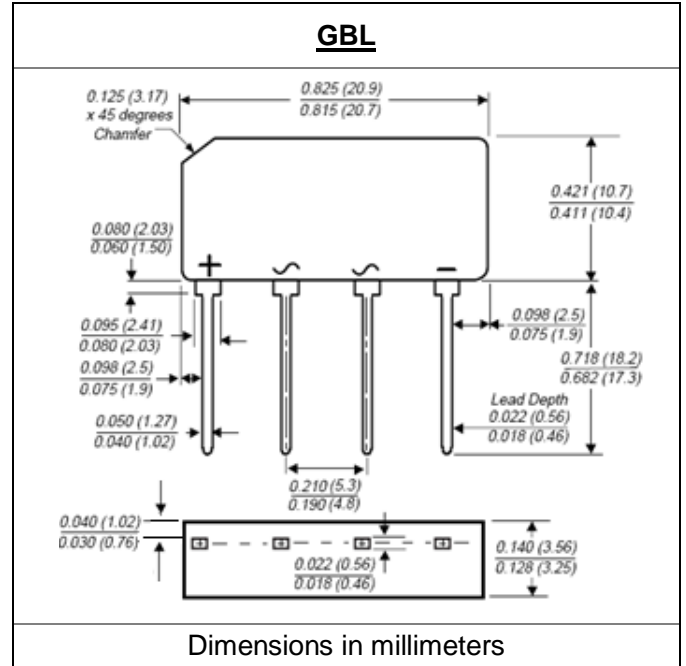


Features

Plastic package has Underwriters Laboratory
Flammability Classification 94V-0
Glass passivated chip junction
High case dielectric strength
High surge current capability
Ideal for printed circuit boards
This series is UL listed under Recognized Component Index,
file number E330278
Halogen Free

Mechanical Data

Terminals: Plated leads solderable per J-STD-002
Case: Molded plastic body over passivated junctions
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	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 ² t	93		A ² Sec
Maximum DC Reverse Current at rated DC blocking voltage	I _r	5.0 500		μA
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

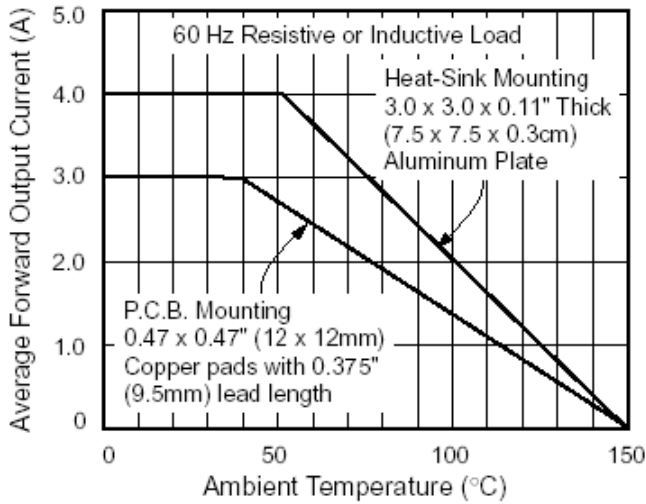


Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg

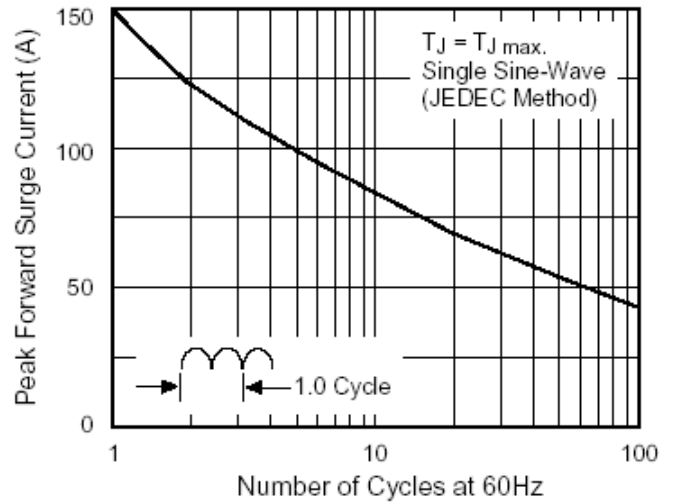


Fig. 3 -- Typical Forward Voltage Characteristics Per Leg

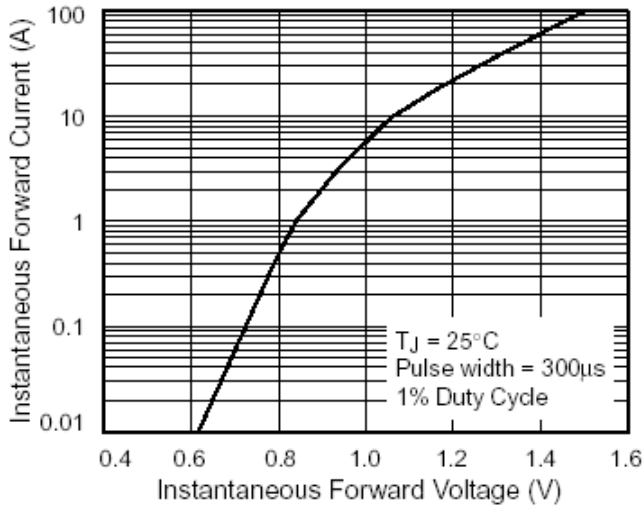


Fig. 4 -- Typical Reverse Leakage Characteristics Per Leg

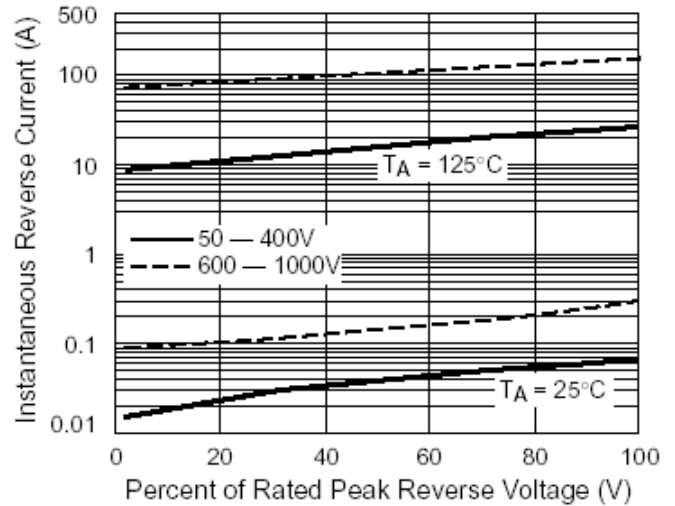


Fig. 5 -- Typical Junction Capacitance Per Leg

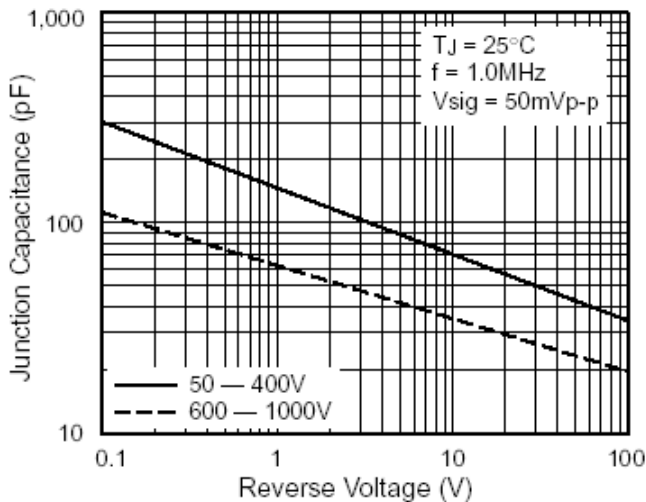


Fig. 6 -- Typical Transient Thermal Impedance Per Leg

