G2SBA60-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V Current: 1.5A

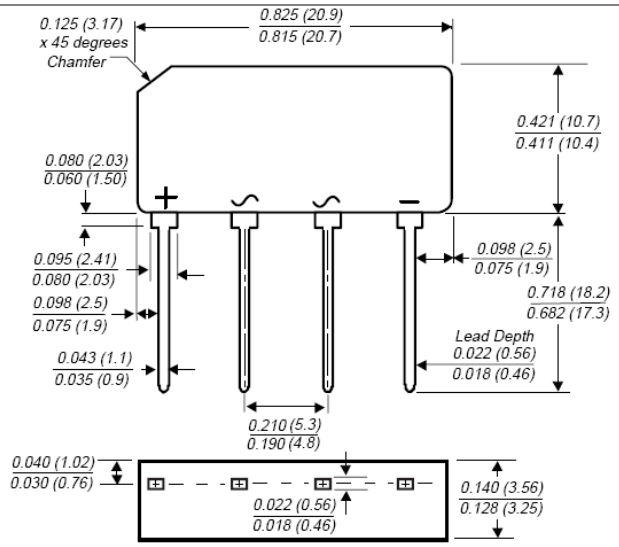
Features

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

Mechanical Data

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Halogen Free Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any

GBL



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	G2SBA60-E	units
Maximum repetitive peak reverse voltage	Vrrm	600	V
Maximum RMS voltage	Vrms	420	V
Maximum DC blocking voltage	Vdc	600	V
Maximum average forward rectified output current Ta = 25℃	If(av)	1.5	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	60	A
Maximum instantaneous forward voltage drop per leg at 0.75A	Vf	1.0	V
Rating for fusing (t < 8.3ms)	I^2t	15	A^2Sec
Maximum DC reverse current at Ta = 25°C rated DC blocking voltage per leg Ta = 125°C	Ir	5.0 300	μA
Maximum thermal resistance per leg	Rth(ja) Rth(jc)	40.0 12.0	℃/W
Operating junction and storage temperature range	Tj, Tstg	-55 to +150	℃

Note:
1. Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads, 0.375" (9.5mm) lead length

RATINGS AND CHARACTERISTIC CURVES G2SBA60-E

Fig. 1 - Derating Curve Output Rectified Current

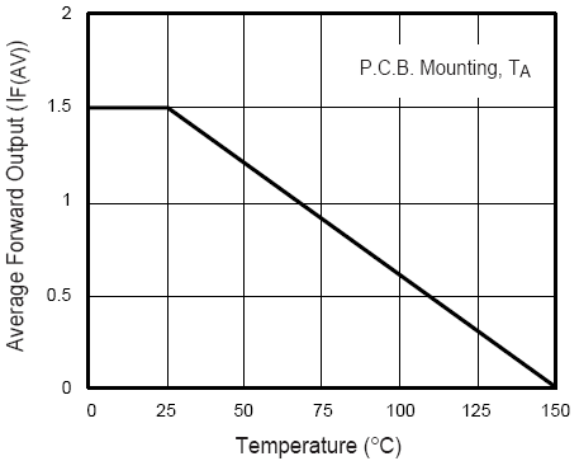


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

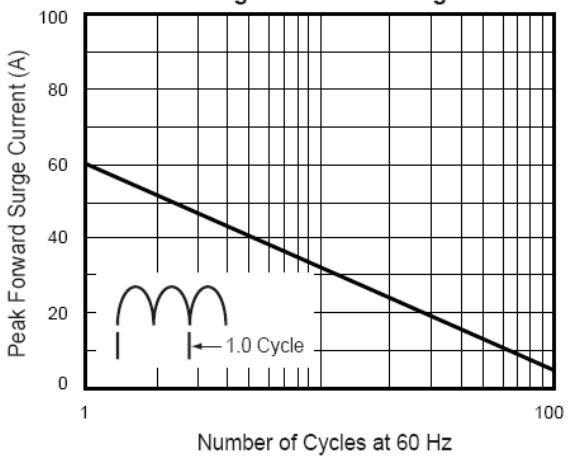


Fig. 3 - Typical Forward Characteristics Per Leg

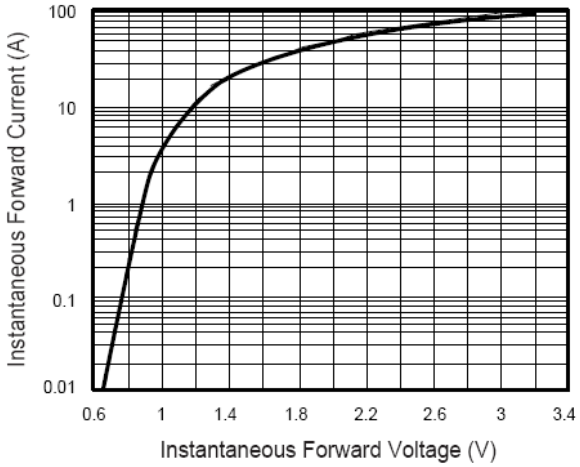


Fig. 4 - Typical Reverse Characteristics Per Leg

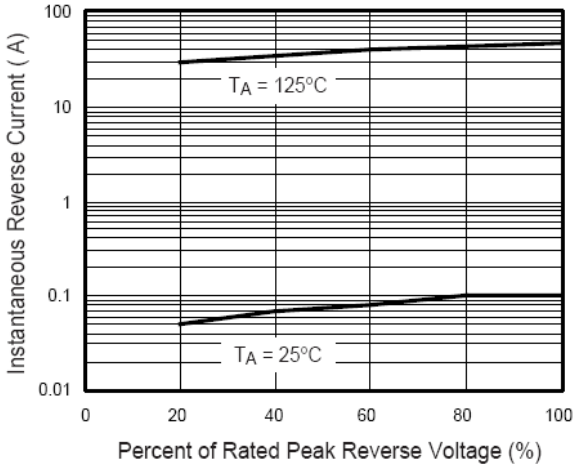


Fig. 5 - Typical Junction Capacitance Per Leg

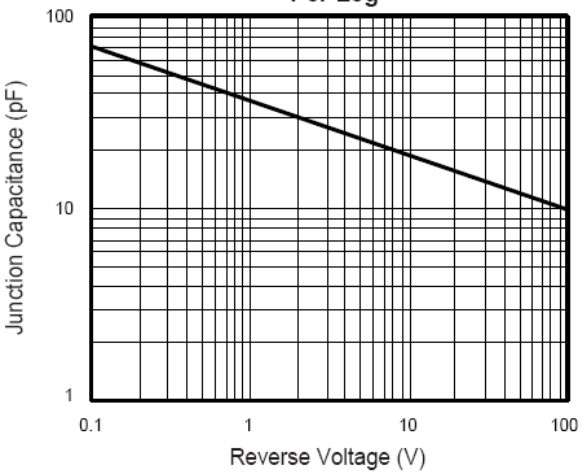


Fig. 6 - Typical Transient Thermal Impedance