G2SBA60-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V   Current: 1.5A
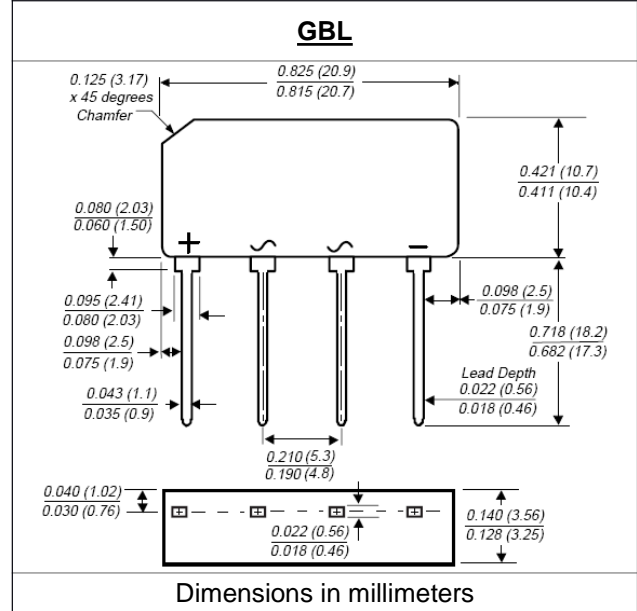
GULF SEMI

Features

Glass passivated chip junction
Ideal for printed circuit board
High case dielectric strength
High surge current capability
Halogen Free

Mechanical Data

Terminal: Plated leads solderable per MIL-STD 202E,
        Method 208C
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,
for capacitive load, derate current by 20%)

	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)	I²t	15	A²Sec
Maximum DC reverse current at Ta = 25℃ rated DC blocking voltage per leg Ta = 125℃	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

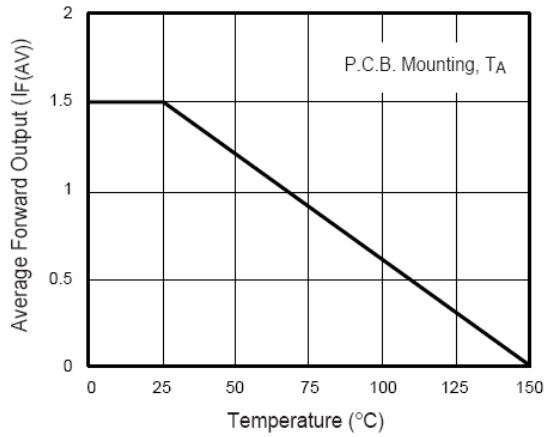**Fig. 1 - Derating Curve Output Rectified Current**

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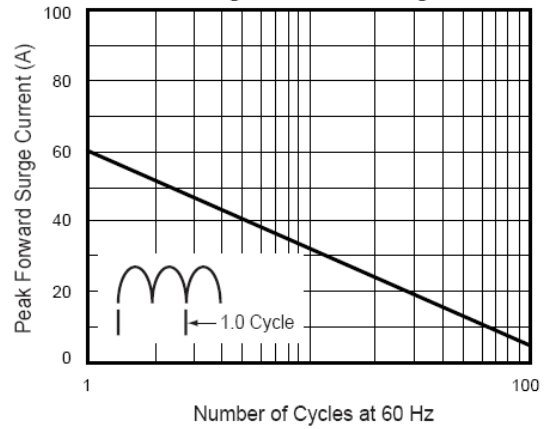

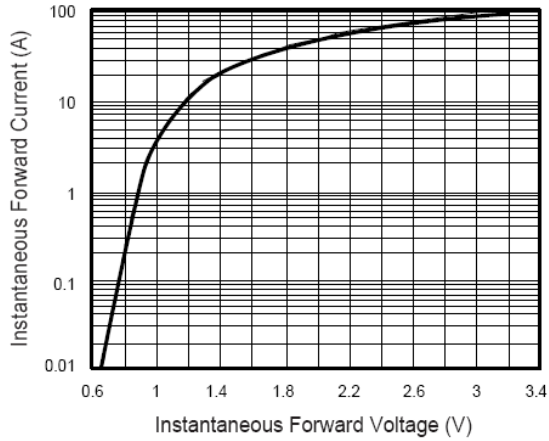**Fig. 3 - Typical Forward Characteristics Per Leg**

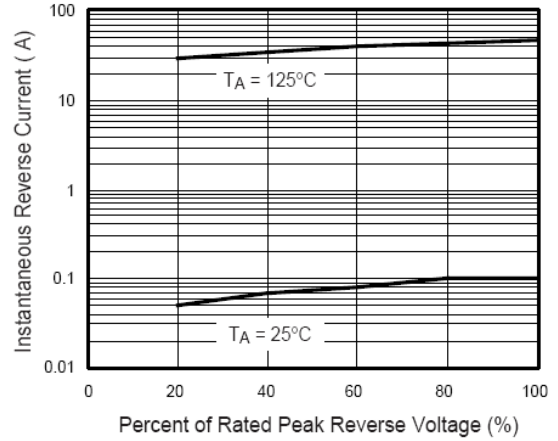**Fig. 4 - Typical Reverse Characteristics Per Leg**
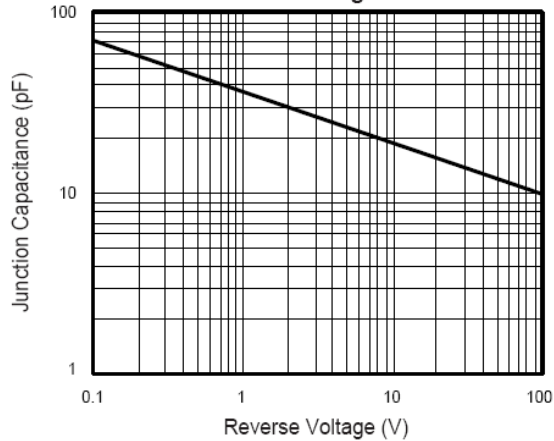

Fig. 5 - Typical Junction Capacitance Per Leg

Fig. 6 - Typical Transient Thermal Impedance