

G2SB05 THRU G2SB100

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V

Current: 1.5A

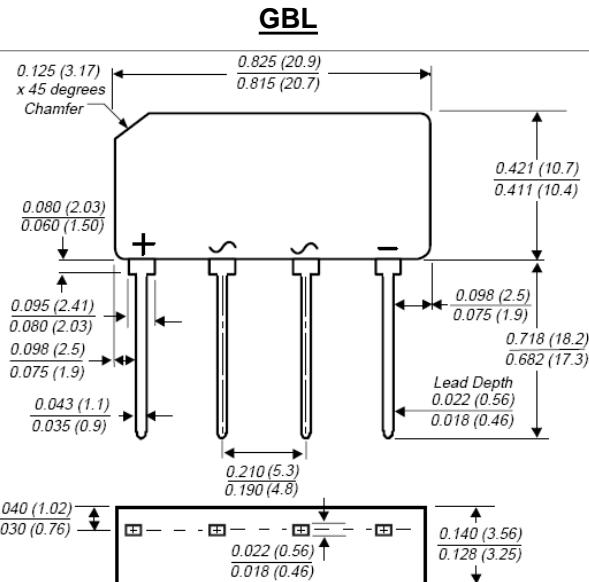


Features

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

Mechanical Data

Terminal: Plated leads solderable per MIL-STD 202E,
Method 208C
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any



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	G2SB 05	G2SB 10	G2SB 20	G2SB 40	G2SB 60	G2SB 80	G2SB 100	units
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current $T_a = 25^\circ C$	If(av)								A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm								A
Maximum instantaneous forward voltage drop per leg at 0.75A	Vf								V
Rating for fusing ($t < 8.3ms$)	I ² t								A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg $T_a = 25^\circ C$ $T_a = 125^\circ C$	Ir								μA
Maximum thermal resistance per leg R _{th(ja)} R _{th(jc)}									$^\circ C/W$
Operating junction and storage temperature range	T _j , T _{stg}						-55 to +150		$^\circ C$

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 G2SB05 THRU G2SB100

Fig. 1 - Derating Curve Output Rectified Current

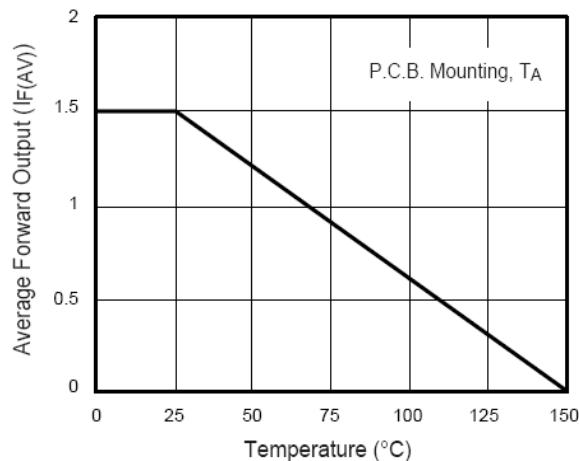


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

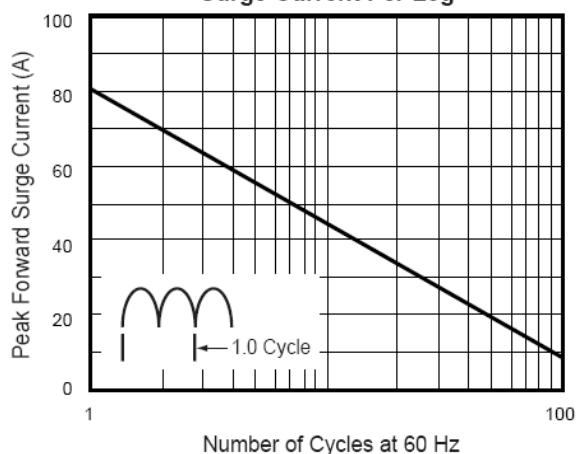


Fig. 3 - Typical Forward Characteristics Per Leg

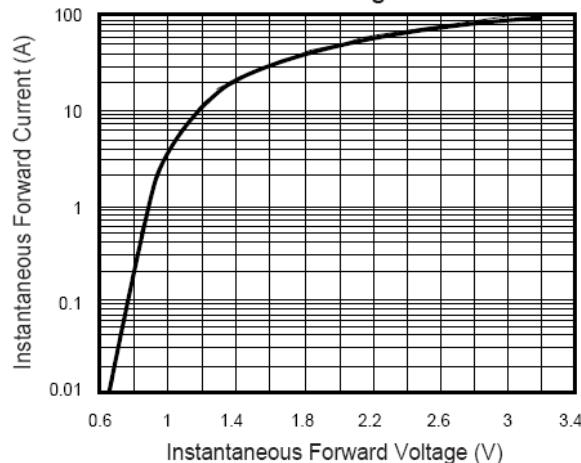


Fig. 4 - Typical Reverse Characteristics Per Leg

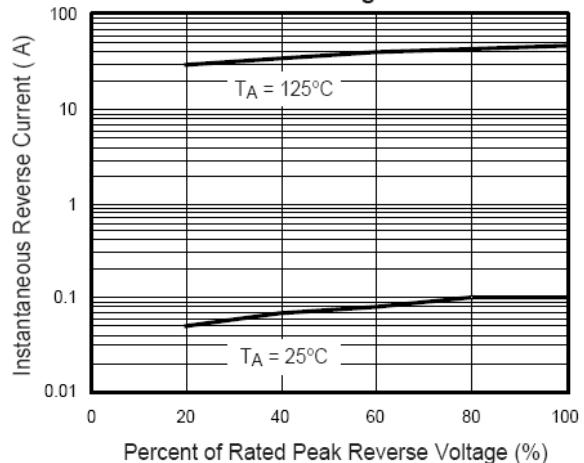


Fig. 5 - Typical Junction Capacitance Per Leg

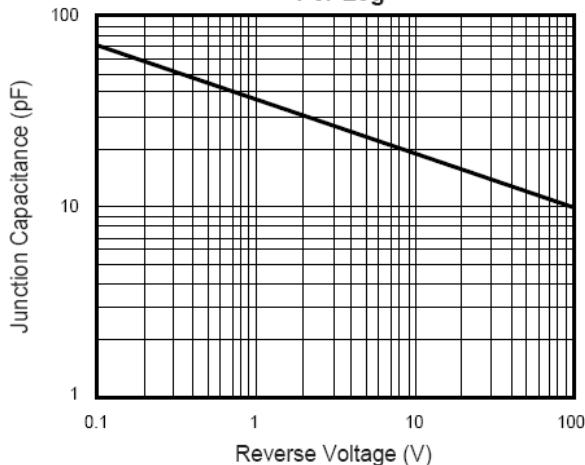


Fig. 6 - Typical Transient Thermal Impedance

