

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

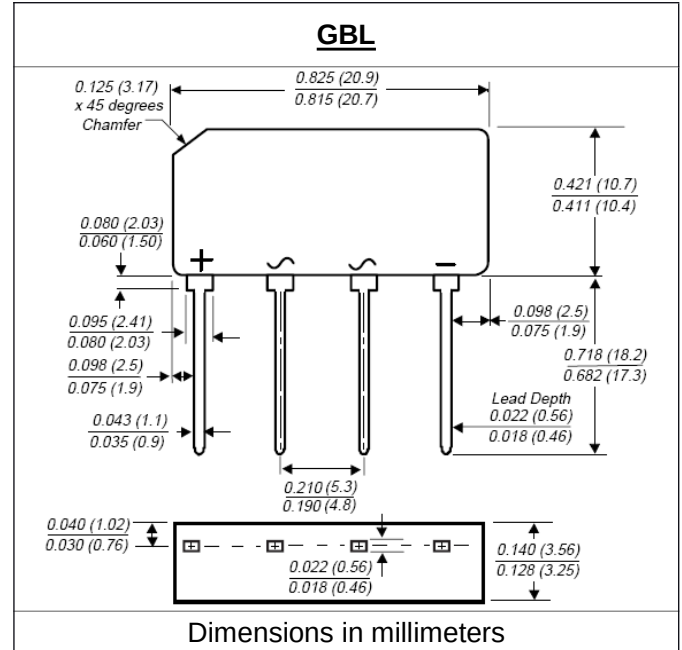
Mechanical Data

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	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{dc}	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current Ta = 25°C	I _{f(av)}	1.5							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	80							A
Maximum instantaneous forward voltage drop per leg at 0.75A	V _f	1.0							V
Rating for fusing (t < 8.3ms)	I ² t	27							A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg Ta = 25°C Ta = 125°C	I _r	5.0 300							μA
Maximum thermal resistance per leg	R _{th(ja)} R _{th(jc)}	40.0 12.0							°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 to +150							°C

Note:

- 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

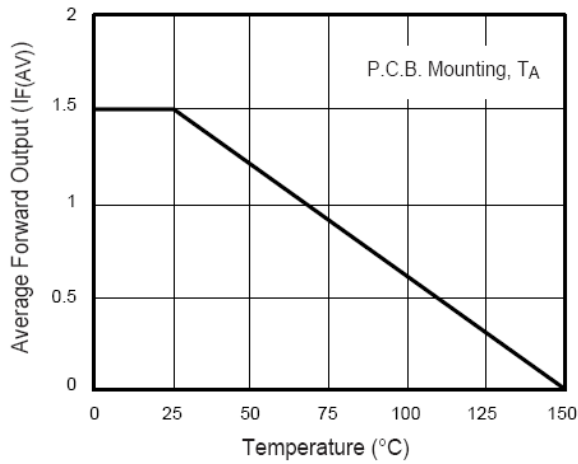


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

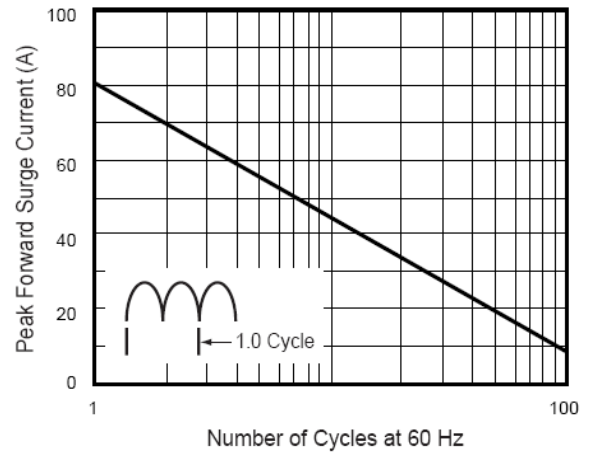


Fig. 3 - Typical Forward Characteristics Per Leg

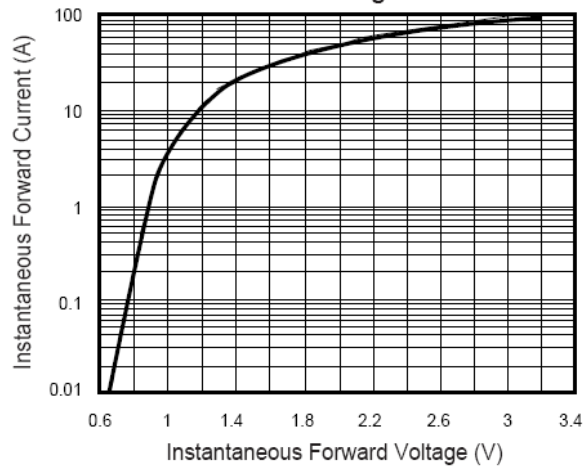


Fig. 4 - Typical Reverse Characteristics Per Leg

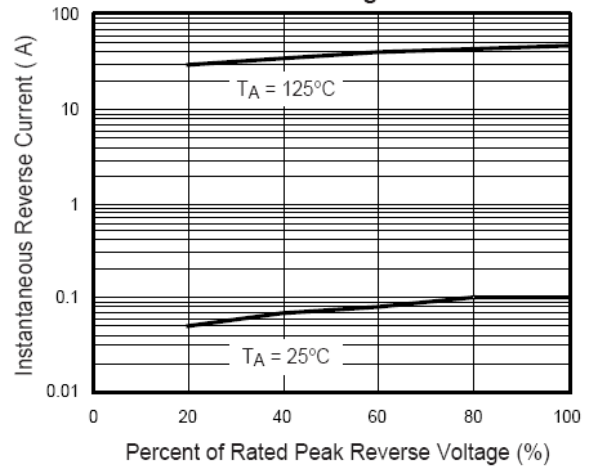


Fig. 5 - Typical Junction Capacitance Per Leg

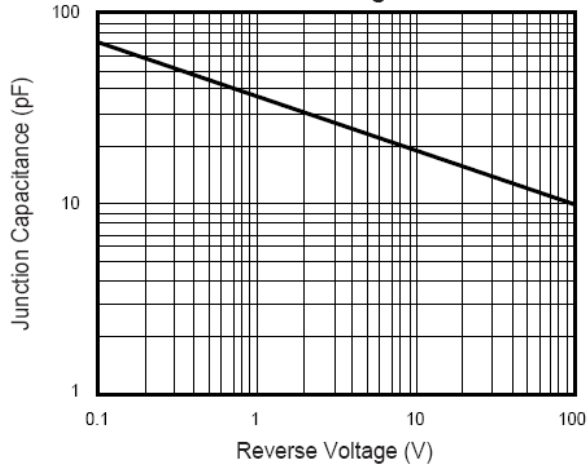


Fig. 6 - Typical Transient Thermal Impedance

