

G2SB05-E THRU G2SB100-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V

Current: 2.0A

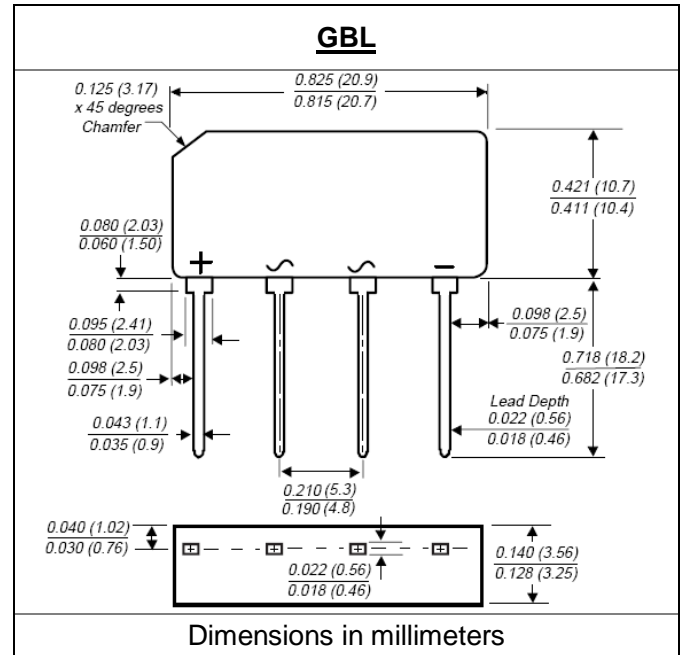


Features

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: Halogen Free 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)

	Symbol	G2SB 05-E	G2SB 10-E	G2SB 20-E	G2SB 40-E	G2SB 60-E	G2SB 80-E	G2SB 100-E	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	I _{f(av)}	2.0 (T _c = 80°C) 2.0 (T _L = 70°C)							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	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-E THRU G2SB100-E

Fig. 1 - Derating Curve Output Rectified Current

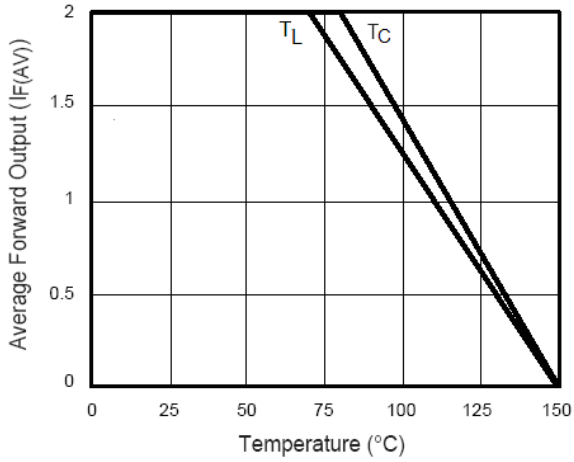


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

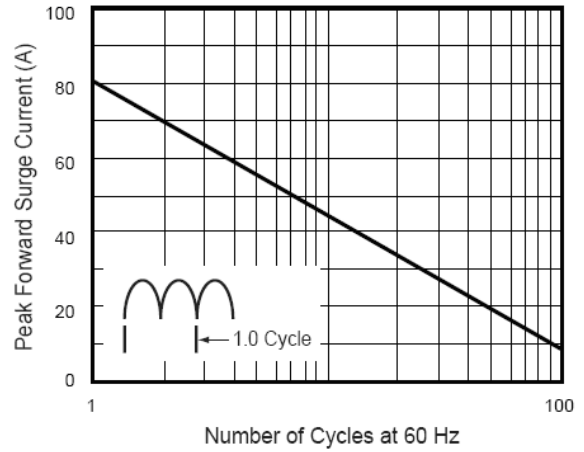


Fig. 3 - Typical Forward Characteristics Per Leg

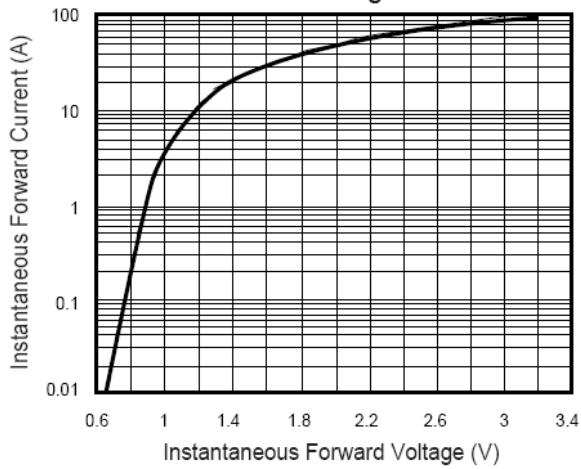


Fig. 4 - Typical Reverse Characteristics Per Leg

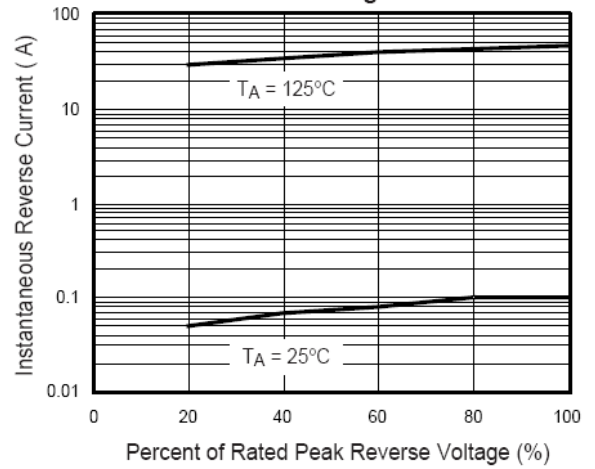


Fig. 5 - Typical Junction Capacitance Per Leg

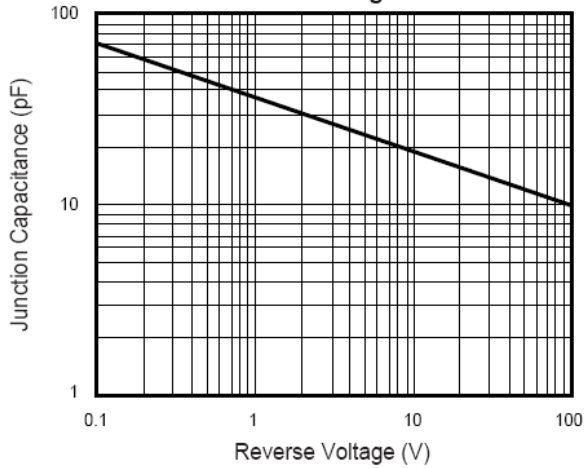


Fig. 6 - Typical Transient Thermal Impedance

