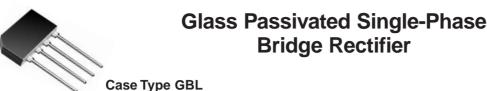


New Product

Vishay Semiconductors formerly General Semiconductor



Reverse Voltage 200 to 800V Forward Current 1.5A

0.825 (20.9) 0.125 (3.17) 0.815 (20.7) x 45 degrees Chamfer 0.421 (10.7) 0.411 (10.4) 0.080 (2.03) 0.060 (1.50) 0.098 (2.5) 0.095 (2.41) 0.075 (1.9) 0.080 (2.03) 0.718 (18.2) 0.098 (2.5) 0.682 (17.3) 0.075 (1.9) Lead Depth 0.022 (0.56) 0.043 (1.1) 0.018 (0.46) 0.035 (0.9) 0.210 (5.3) 0.190 (4.8) 0.030 (0.76) 0.040 (1.02) \Box 0.140 (3.56) 0.022 (0.56) 0.128 (3.25)

Polarity shown on front side of case, positive lead beveled corner.

Dimensions in inches and (millimeters)

0.018 (0.46)

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized Component Index, file number E54214
- · High case dielectric strength
- · Ideal for printed circuit boards
- · Glass passivated chip junction
- High surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375 (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

Case: Molded plastic body over passivated junctions **Terminals:** Plated leads solderable per MIL-STD-750,

Method 2026

Mounting Position: Any Weight: 0.071 oz., 2.0 g Packaging codes/options:

1/400 EA. per Bulk Tray Stack, 4K/box

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	G2SB20	G2SB60	G2SB80	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	600	800	V
Maximum RMS voltage	VRMS	140	420	560	V
Maximum DC blocking voltage	VDC	200	600	800	V
Maximum average forward rectified output current at TA = 25°C	lF(AV)	1.5			Α
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	80			А
Rating for fusing (t<8.3ms)	l²t	27			A²sec
Typical thermal resistance per leg	RθJA RθJL	40 12			°C/W
Operating junction storage and temperature range	TJ, TSTG	-55 to +150			°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter		Symbol	G2SB20	G2SB60	G2SB80	Unit
Maximum instantaneous forward voltage drop per leg at 0.75 A		VF		1.00		V
	25°C 125°C	lR	5.0 300			μΑ

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

Vishay Semiconductors

formerly General Semiconductor

Ratings and

Characteristic Curves (TA = 25°C unless otherwise noted)

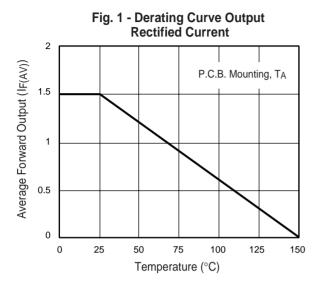


Fig. 3 - Typical Forward Characteristics Per Leg

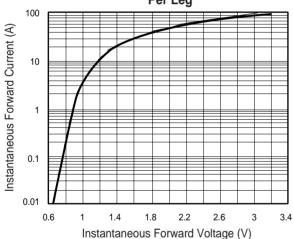


Fig. 5 - Typical Junction Capacitance

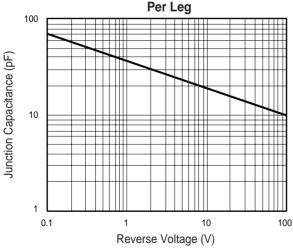


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

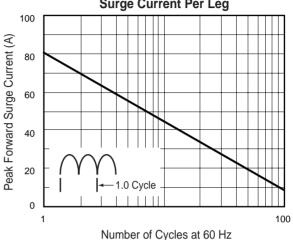


Fig. 4 - Typical Reverse Characteristics Per Leg

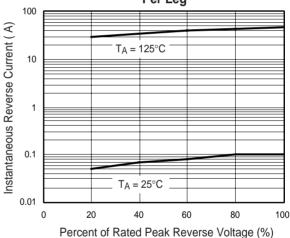
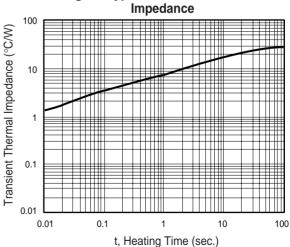


Fig. 6 - Typical Transient Thermal



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