

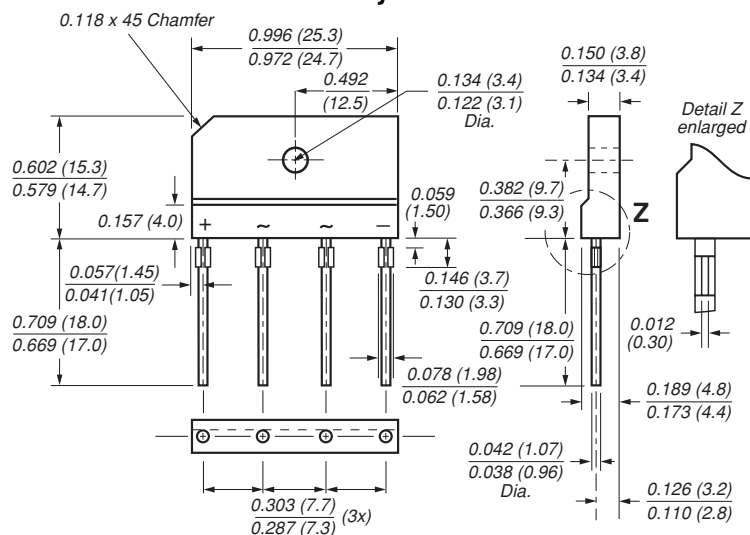
Glass Passivated Single-In-Line Bridge Rectifier

Reverse Voltage 200 and 800 V
Forward Current 4.0 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High case dielectric strength of 1500 VRMS
- Ideal for printed circuit boards
- Glass passivated chip junction
- High surge current capability

Mechanical Data

Case: Molded plastic body over passivated junctions**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026High temperature soldering guaranteed:
260°C/10 seconds, 0.375 (9.5mm) lead length,
5lbs. (2.3kg) tension**Mounting Position:** Any⁽³⁾**Mounting Torque:** 5 in-lbs max.**Weight:** 0.15oz., 4.0g**Packaging codes-options:**
1-400 ea. per Bulk Tray Stack**Case Style GSIB-3G**Dimensions in inches and (millimeters)
Use suffix "N" for no stand-off

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GSIB4A20	GSIB4A40	GSIB4A60	GSIB4A80	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	V
Maximum DC blocking voltage	V _{DC}	200	400	600	800	V
Maximum average forward rectified output current at T _C = 100°C ⁽¹⁾ T _A = 25°C ⁽²⁾	I _{F(AV)}	4.0 ⁽¹⁾ 2.3 ⁽²⁾				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80				A
Rating for fusing (t < 8.3ms)	I ² t	32				A ² sec
Typical thermal resistance per leg	R _{θJA} R _{θJC}	26 ⁽²⁾ 5 ⁽¹⁾				°C/W
Operating junction storage and temperature range	T _J , T _{STG}	-55 to +150				°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GSIB4A20	GSIB4A40	GSIB4A60	GSIB4A80	Unit
Maximum instantaneous forward voltage drop per leg at 2.0 A	V _F	1.00				V
Maximum DC reverse current at rated DC blocking voltage per leg T _A = 25°C T _A = 125°C	I _R	5.0 400				μA

Notes: (1) Unit case mounted on Al plate heatsink

(2) Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads and 0.375" (9.5mm) lead length

(3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Derating Curve Output Rectified Current

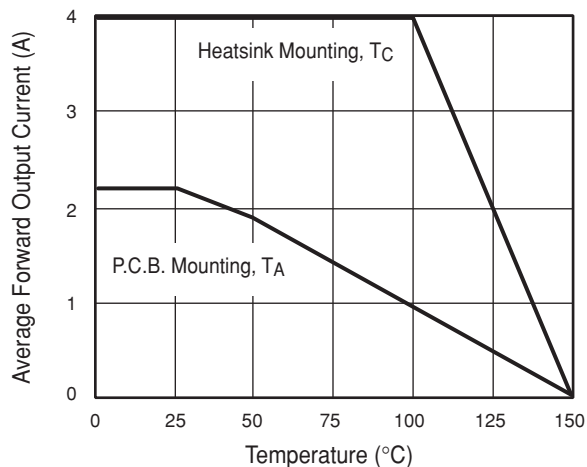


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

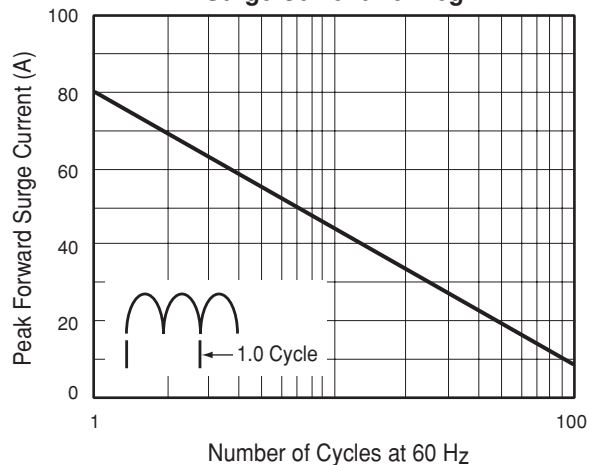


Fig. 3 - Typical Forward Characteristics Per Leg

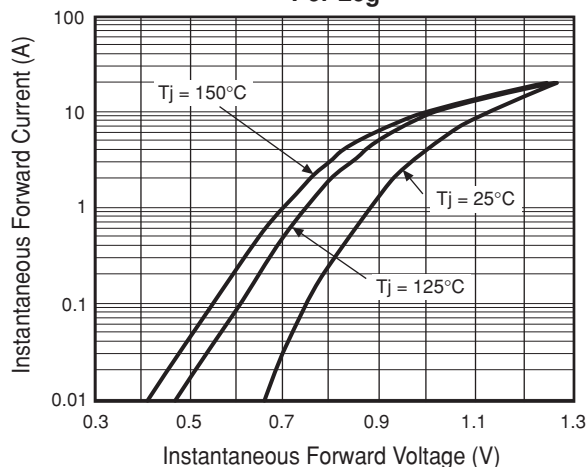


Fig. 4 - Typical Reverse Characteristics Per Leg

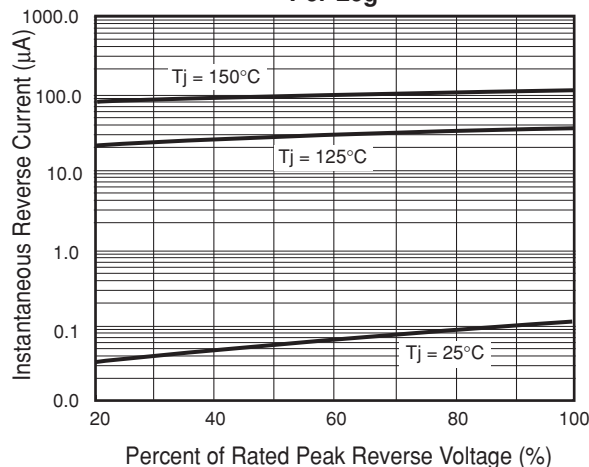


Fig. 5 - Typical Junction Capacitance Per Leg

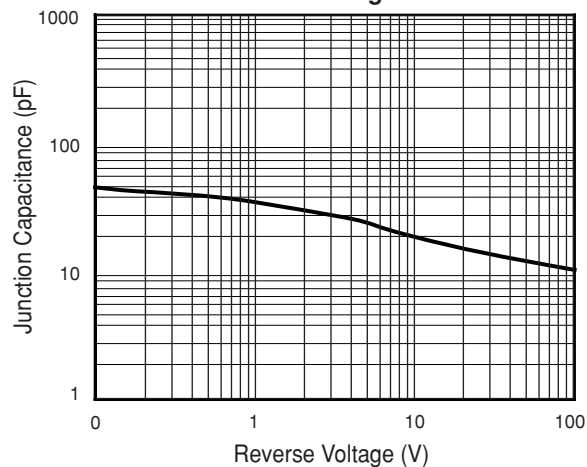


Fig. 6 - Typical Transient Thermal Impedance Per Leg

