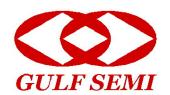
GSIB2560-E THRU GSIB25100-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V to 1000V Current: 25.0A



Features

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

This series is UL listed under Recognized Component Index, file number E330278

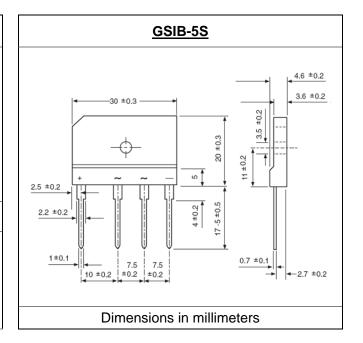
Halogen Free

Mechanical Data

Terminal: Plated leads solderable per J-STD-002 Case: UL-94 Class V-0 recognized Halogen Free Epoxy

Polarity: Polarity symbol marked on body

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

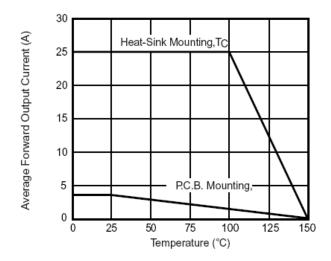
(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	GSIB2560-E	GSIB2580-E	GSIB25100-E	units
Maximum repetitive peak reverse voltage	Vrrm	600	800	1000	V
Maximum RMS voltage	Vrms	420	560	700	V
Maximum DC blocking voltage	Vdc	600	800	1000	V
Maximum average forward $Tc = 98^{\circ}C \text{ (Note 1)}$ Rectified output current at $Ta = 25^{\circ}C \text{ (Note 2)}$	If(av)	25.0 3.5			А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	350			А
Maximum instantaneous forward voltage drop per leg at 12.5A	Vf	1.0			V
Rating for fusing (t < 8.3ms)	l ² t	500			A ² Sec
Maximum DC reverse current at Ta = 25°C rated DC blocking voltage per leg Ta = 125°C	lr	10.0 350			μА
Rth(jc)					
Operating junction and storage temperature range	Tj, Tstg	-55 to +150			$^{\circ}$ C

Note:

- 1. Unit case mounted on Al plate heatsink
- 2. Unit case mounted on P.C.B. without heatsink
- 3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

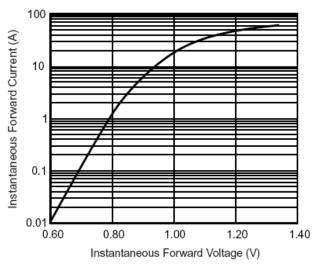
RATINGS AND CHARACTERISTIC CURVES GSIB2560-E THRU GSIB25100-E



400 350 300 200 150 100 Number of Cycles at 60 Hz

Figure 1. Derating Curve Output Rectified Current

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



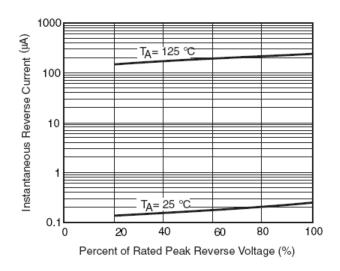
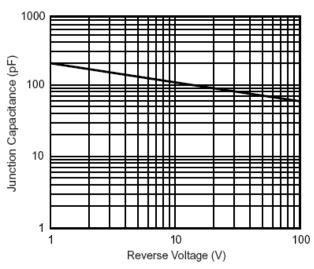


Figure 3. Typical Forward Characteristics Per Leg

Figure 4. Typical Reverse Characteristics Per Leg



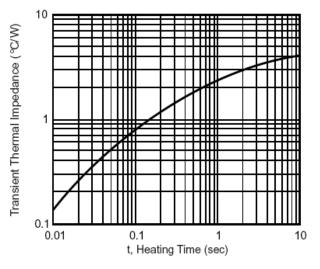


Figure 5. Typical Junction Capacitance Per Leg

Figure 6. Typical Transient Thermal Impedance