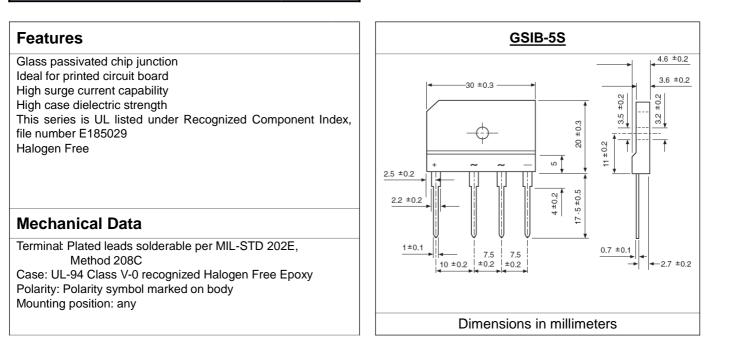
## **GSIB2560-E THRU GSIB25100-E**

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V to 1000V

Current: 25.0A





## 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	GSIB2560-E	GSIB2580-E	GSIB25100-E	unit
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 $Tc = 98^{\circ}C$ (Note 1)Rectified output current at $Ta = 25^{\circ}C$ (Note 2)	lf(av)	25.0 3.5			A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	lfsm	350			A
Maximum instantaneous forward voltage drop per leg at 12.5A	Vf	1.0			V
Rating for fusing (t < 8.3ms)	l²t	500			A <sup>2</sup> S
Maximum DC reverse current at rated DC blocking voltage per legTa = $25$ °C Ta = $125$ °C	lr	10.0 350			μA
Maximum thermal resistance per leg (Note2) (Note1)	Rth(ja) Rth(jc)	22.0 1.0			°C/
Operating junction and storage temperature range	Tj, Tstg	-55 to +150			°C

Note:

1. Unit case mounted onAl plate heatsink

2. Unit case mounted on P.C.B. with 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

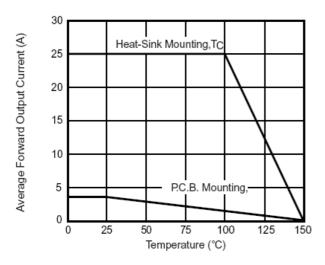


Figure 1. Derating Curve Output Rectified Current

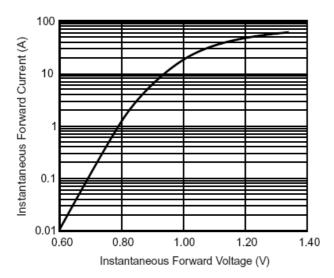


Figure 3. Typical Forward Characteristics Per Leg

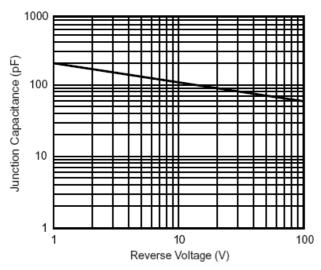


Figure 5. Typical Junction Capacitance Per Leg

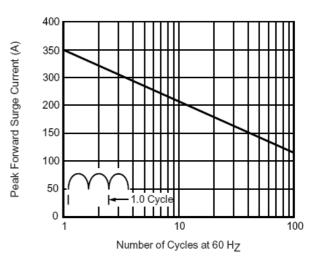


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

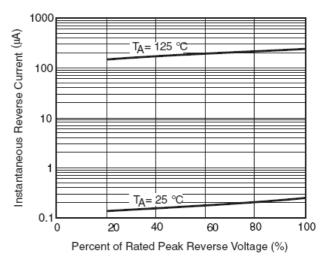


Figure 4. Typical Reverse Characteristics Per Leg

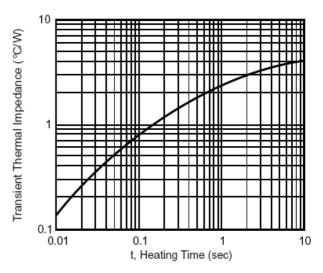


Figure 6. Typical Transient Thermal Impedance

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