GSIB2505 THRU **GSIB25100**

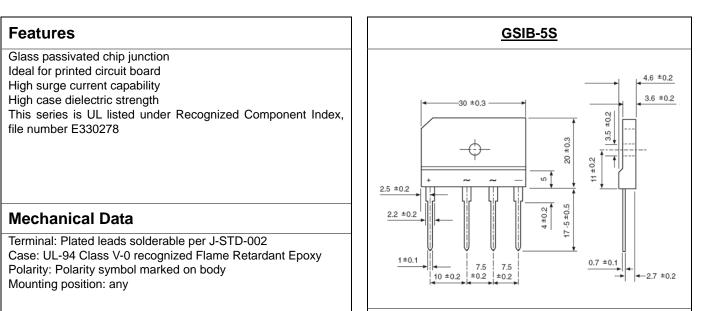
SINGLE PHASE GLASS

Voltage: 50 to 1000V

PASSIVATED BRIDGE RECTIFIER

Current: 25.0A





Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbol	GSIB2 505	GSIB2 510	GSIB2 520	GSIB2 540	GSIB2 560	GSIB2 580	GSIB2 5100	units
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	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							А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	lfsm	350							Α
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 Se	
Maximum DC reverse current at $Ta = 25^{\circ}C$	lr 10.0							μA	
rated DC blocking voltage per leg Ta = 125°C		350							
Maximum thermal resistance per leg (Note2) (Note1)	Rth(ja) Rth(jc)	22.0 1.0							°C/V
Operating junction and storage temperature range	Tj, Tstg	-55 to +150							°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 GSIB2505 THRU GSIB25100

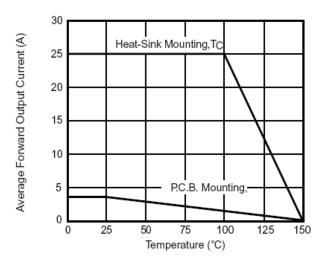


Figure 1. Derating Curve Output Rectified Current

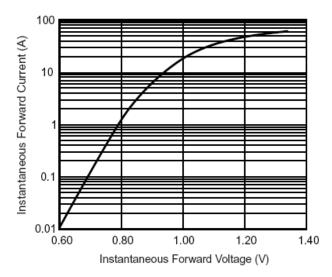


Figure 3. Typical Forward Characteristics Per Leg

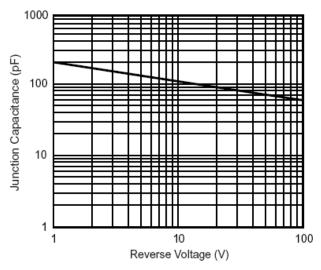


Figure 5. Typical Junction Capacitance Per Leg

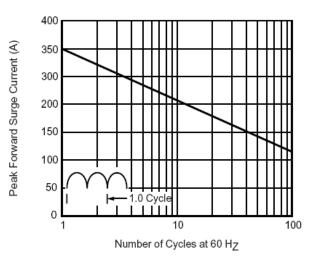


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

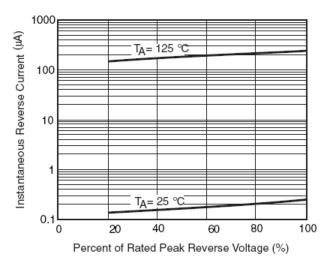


Figure 4. Typical Reverse Characteristics Per Leg

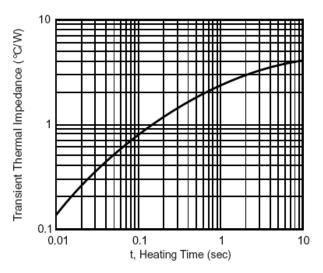


Figure 6. Typical Transient Thermal Impedance