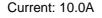
## GSIB10A05 THRU GSIB10A100

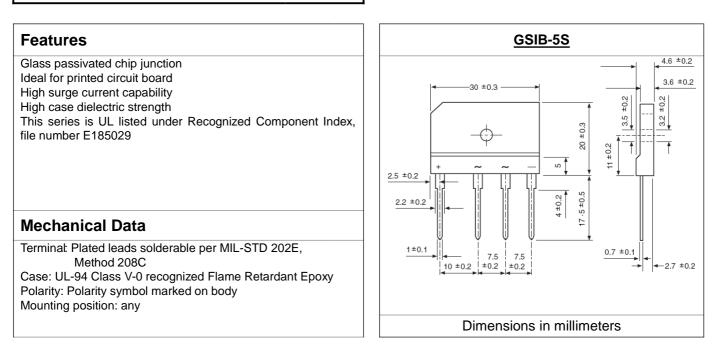
SINGLE PHASE GLASS

PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V







## 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	GSIB1 0A05	GSIB1 0A10	GSIB1 0A20	GSIB1 0A40	GSIB1 0A60	GSIB1 0A80	GSIB1 0A100	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 rectified output current at $Tc = 100$ °C(Note1)	lf(av)	10.0							Α
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	lfsm	180							Α
Maximum instantaneous forward voltage drop per leg at 5.0A	Vf	1.0						V	
Rating for fusing (t < 8.3ms)	l <sup>2</sup> t	130						A <sup>2</sup> Se	
Maximum DC reverse current at $Ta = 25^{\circ}$ rated DC blocking voltage per leg $Ta = 125^{\circ}$	lr	10.0 250							μΑ
Maximum thermal resistance per leg (Note1)	Rth(jc)	1.4							°C/V
Operating junction and storage temperature range	Tj, Tstg	-55 to +150							°C

1. Unit case mounted on Al plate heatsink

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

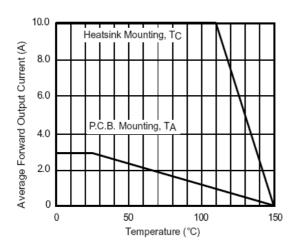


Figure 1. Derating Curve Output Rectified Current

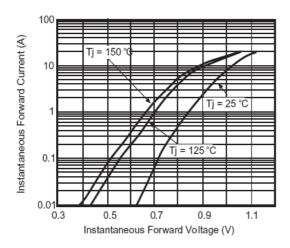


Figure 3. Typical Forward Characteristics Per Leg

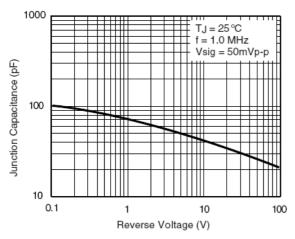


Figure 5. Typical Junction Capacitance Per Leg

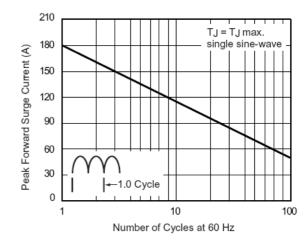


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

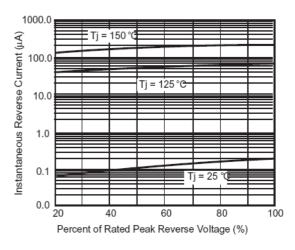


Figure 4. Typical Reverse Characteristics Per Leg

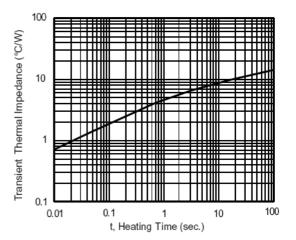


Figure 6. Typical Transient Thermal Impedance