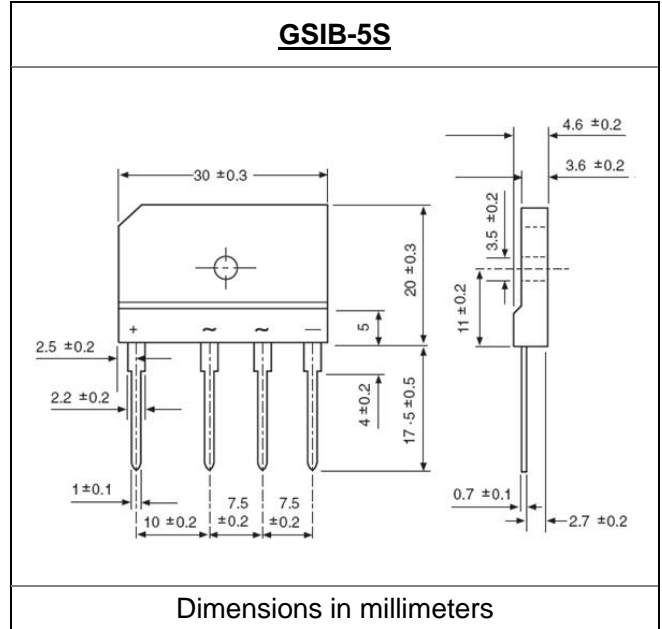


GSIB10A80-70A
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER
Voltage: 800V Current: 10.0A

Features
<p>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</p>
Mechanical Data
<p>Terminal: Plated leads solderable per J-STD-002 Case: UL-94 Class V-0 recognized Flame Retardant Epoxy Polarity: Polarity symbol marked on body Mounting position: any</p>



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS			
(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)			
	Symbol	GSIB10A80-70A	units
Maximum repetitive peak reverse voltage	V _{rrm}	800	V
Maximum RMS voltage	V _{rms}	560	V
Maximum DC blocking voltage	V _{dc}	800	V
Maximum average forward rectified output current at T _c = 100°C(Note1)	I _{f(av)}	10.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	180	A
Maximum instantaneous forward voltage drop per leg at 5.0A	V _f	1.0	V
Rating for fusing (t < 8.3ms)	I ² t	130	A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg	I _r	10.0 250	μA
Maximum thermal resistance per leg (Note1)	R _{th(jc)}	1.4	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 to +150	°C
Note: 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			

RATINGS AND CHARACTERISTIC CURVES GSIB10A80-70A

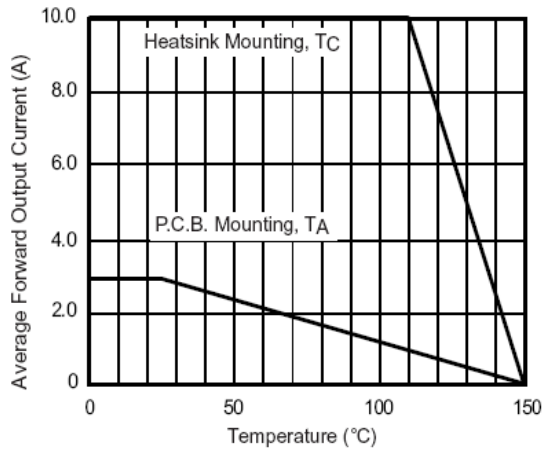


Figure 1. Derating Curve Output Rectified Current

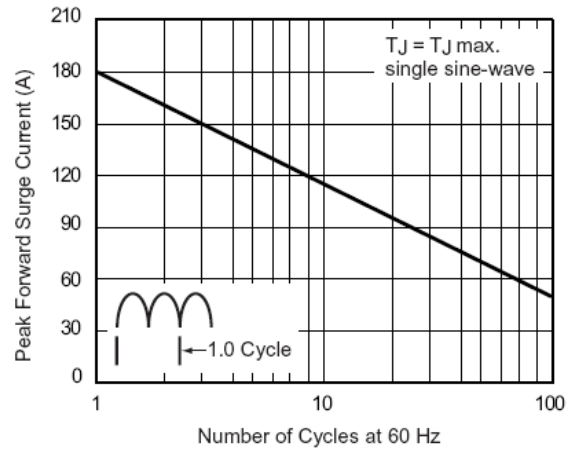


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

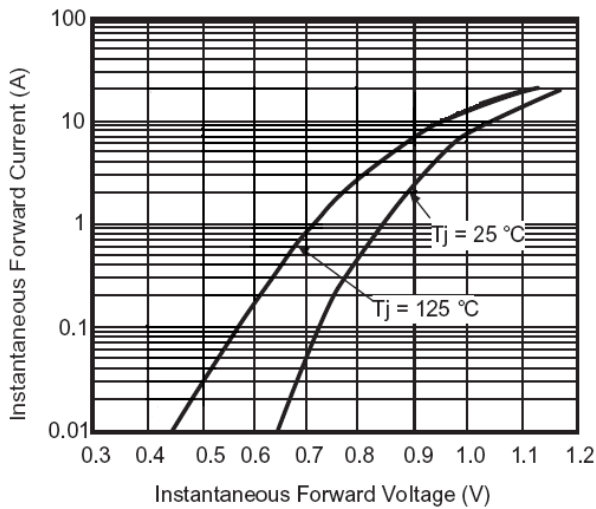


Figure 3. Typical Forward Characteristics Per Leg

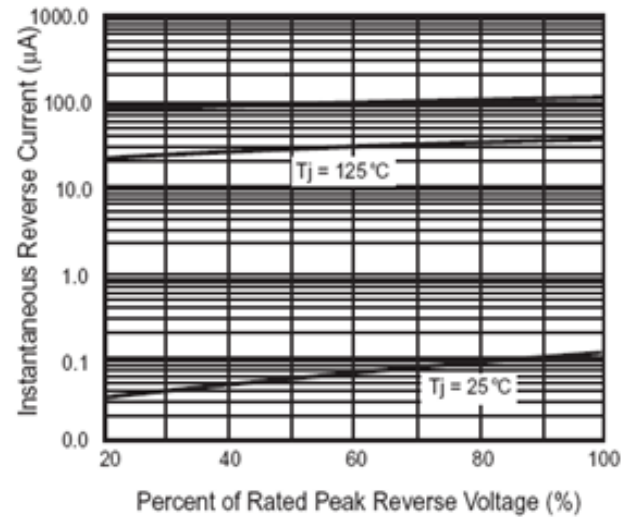


Figure 4. Typical Reverse Characteristics Per Leg

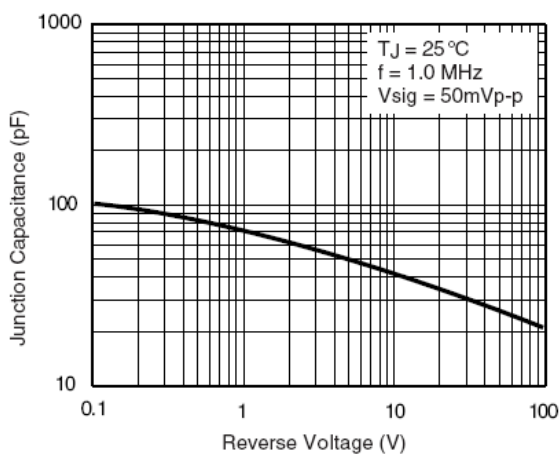


Figure 5. Typical Junction Capacitance Per Leg

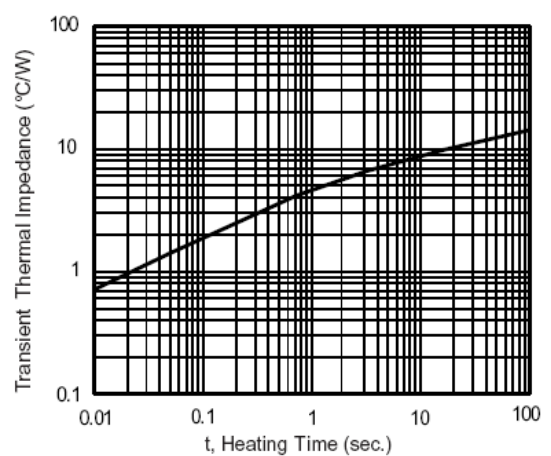


Figure 6. Typical Transient Thermal Impedance