

GSIB660-72A

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600V

Current: 6.0A

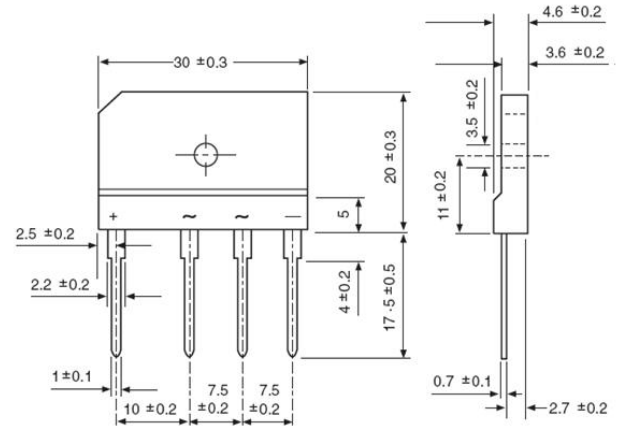
Features

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

Mechanical Data

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

GSIB-5S



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	GSIB660-72A	units
Maximum repetitive peak reverse voltage	V _{rrm}	600	V
Maximum RMS voltage	V _{rms}	420	V
Maximum DC blocking voltage	V _{dc}	600	V
Maximum average forward Rectified output current at T _c = 100°C (Note 2) Ta = 25°C (Note 32)	I _{f(av)}	6.0 2.8	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	200	A
Maximum instantaneous forward voltage drop per leg at 3.0A	V _f	0.95	V
Rating for fusing (t < 8.3ms)	I ² t	135	A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg Ta = 25°C Ta = 125°C	I _r	10.0 250	μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	1000	nS
Maximum thermal resistance per leg (Note 3) (Note 2)	R _{th(ja)} R _{th(jc)}	22.0 3.4	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 to +150	°C

Note:

1. Reverse Recovery Condition I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A
2. Unit case mounted on Al plate heatsink
3. Unit case mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads and 0.375" (9.5mm) lead length
4. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

RATINGS AND CHARACTERISTIC CURVES GSIB660-72A

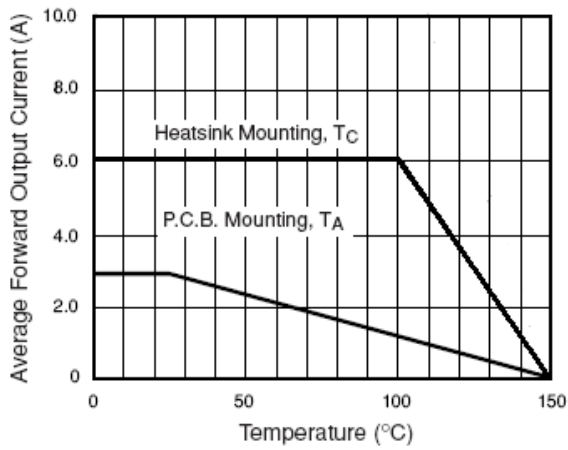


Fig. 1 - Derating Curve Output Rectified Current

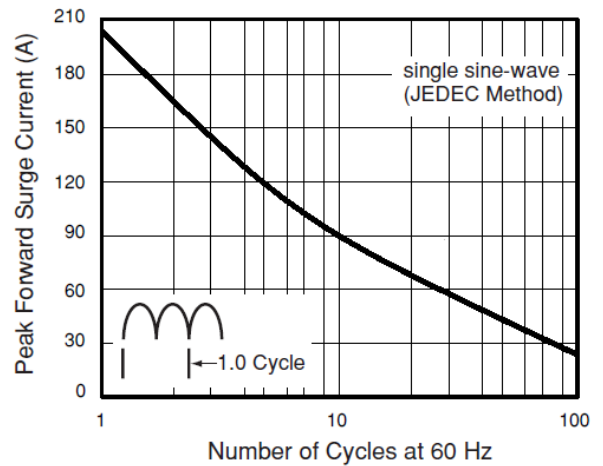


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

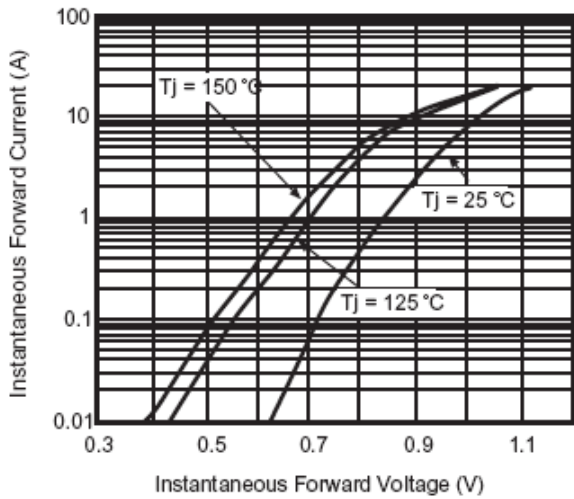


Figure 3. Typical Forward Characteristics Per Leg

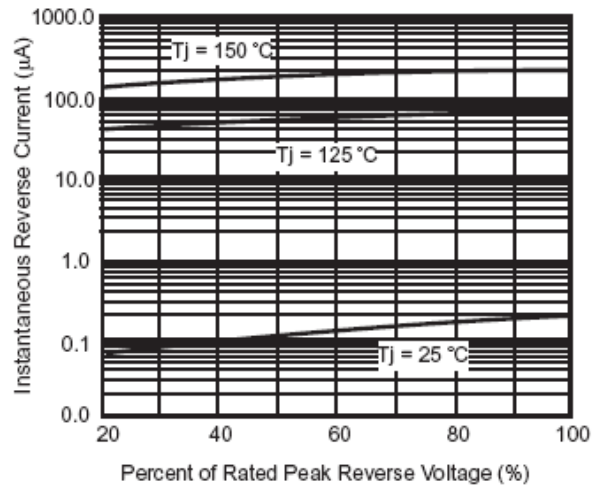


Figure 4. Typical Reverse Characteristics Per Leg

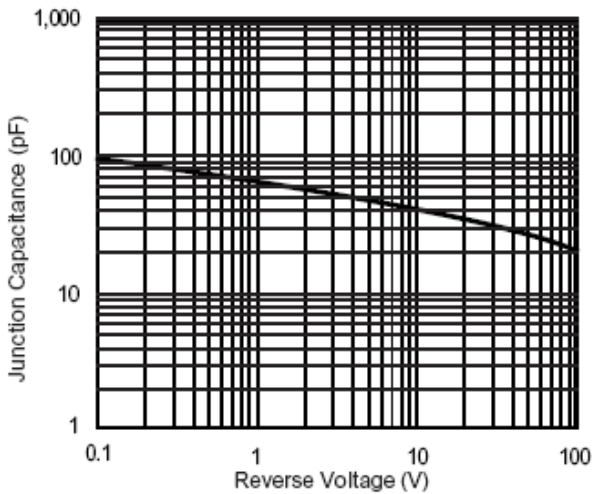


Figure 5. Typical Junction Capacitance Per Leg

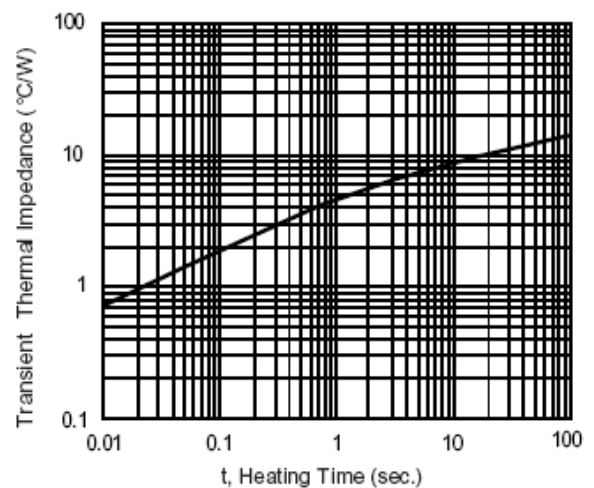


Figure 6. Typical Transient Thermal Impedance