

G4SB60 THRU G4SB80

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600 to 800V

Current: 4.0A

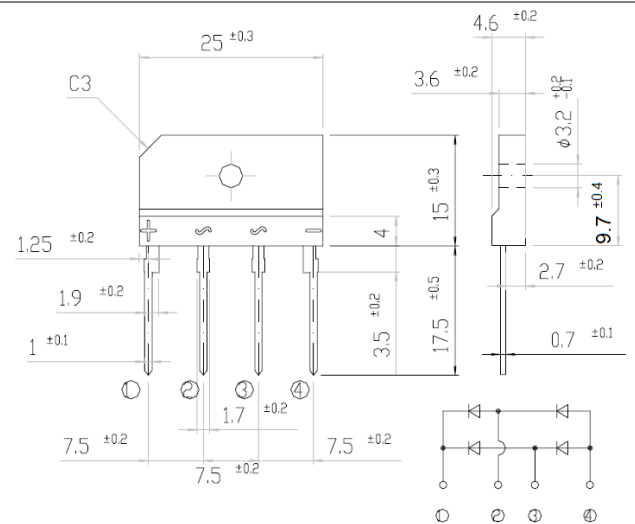
Features

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-3S



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	G4SB60	G4SB80	units
Maximum repetitive peak reverse voltage	V _{rrm}	600	800	V
Maximum RMS voltage	V _{rms}	420	560	V
Maximum DC blocking voltage	V _{dc}	600	800	V
Maximum average forward Rectified output current at T _c = 108°C with heatsink	I _{f(av)}	4.0		A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	160		A
Maximum instantaneous forward voltage drop per leg at 2.0A	V _f	0.95		V
Rating for fusing (t < 10ms)	I ² t	80	110	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(ja)}	30.0		°C/W
	(Note2) R _{th(jc)}	5.5		
Operating junction and storage temperature range	T _j , T _{stg}	-55 to +150		°C

Note:

1. junction to ambient, without heatsink
2. junction to case, with heatsink

RATINGS AND CHARACTERISTIC CURVES G4SB60 THRU G4SB80

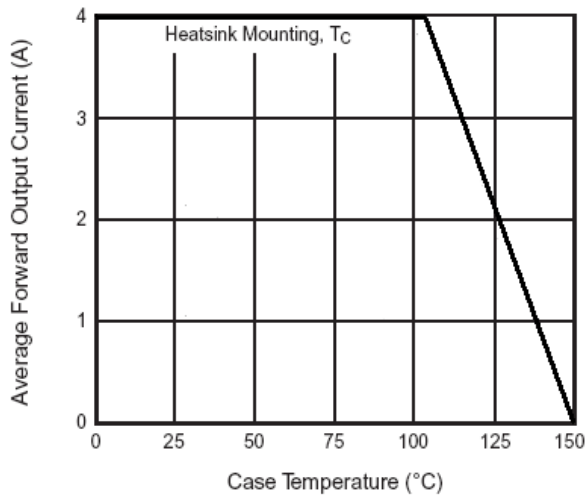


Figure 1. Derating Curve Output Rectified Current

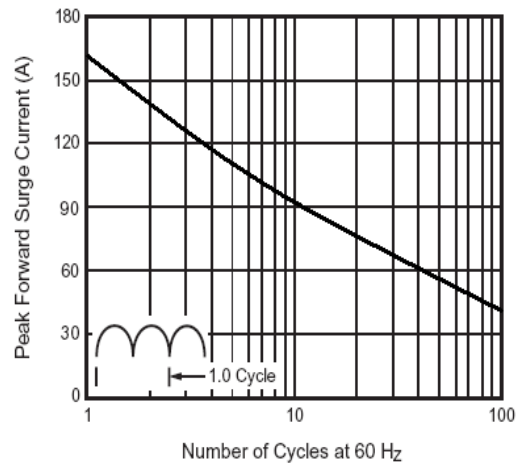


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

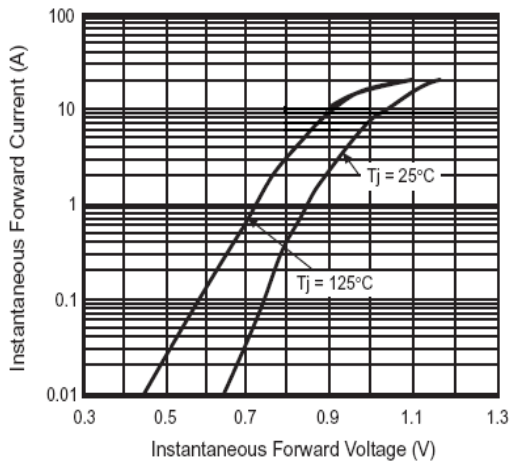


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

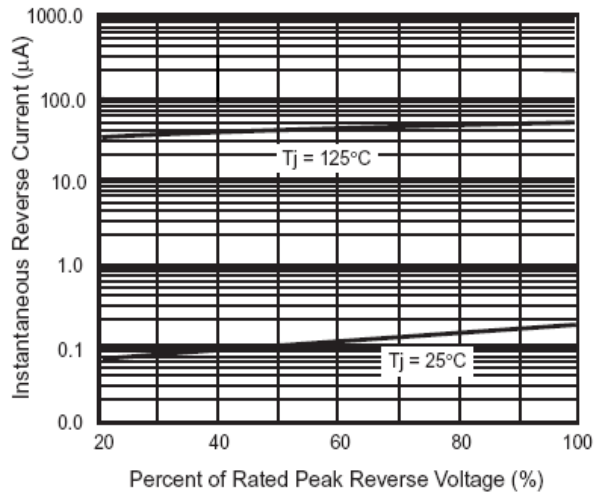


Figure 4. Typical Reverse Characteristics Per Leg

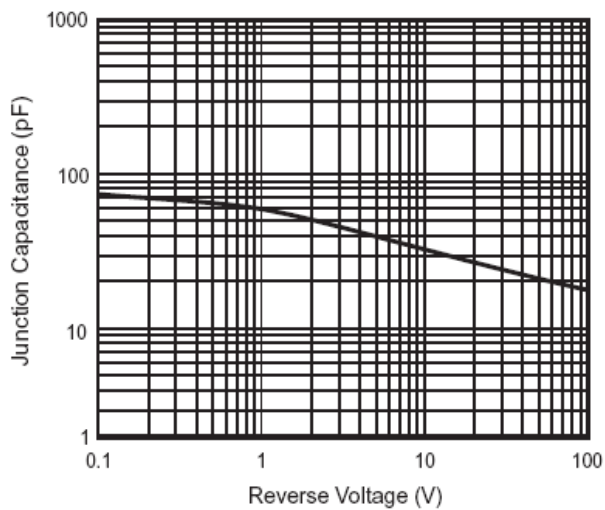


Figure 5. Typical Junction Capacitance Per Leg