

G4SB60 THRU G4SB80

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600 to 800V

4.0A

Current:



Features

Glass passivated chip junction
Ideal for printed circuit board
High surge current capability
High case dielectric strength

Mechanical Data

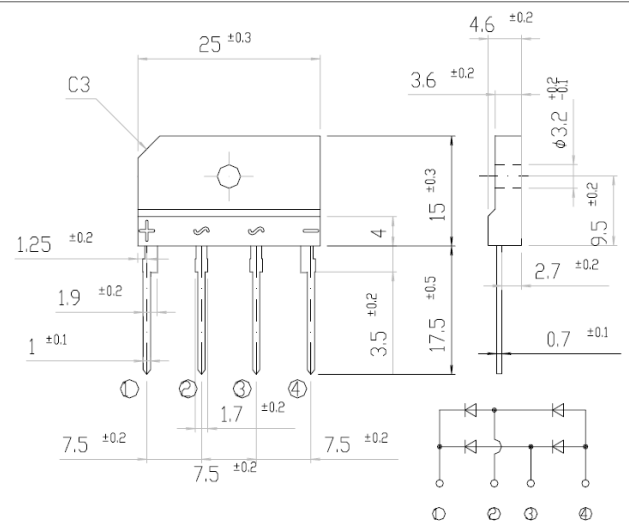
Terminal: Plated leads solderable per MIL-STD 202E,
Method 208C

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 Ta = 25°C Ta = 125°C	I _r	10.0 250		μA
Maximum thermal resistance per leg (Note1) (Note2)	R _{th(ja)} R _{th(jc)}	30.0 5.5		°C/W
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

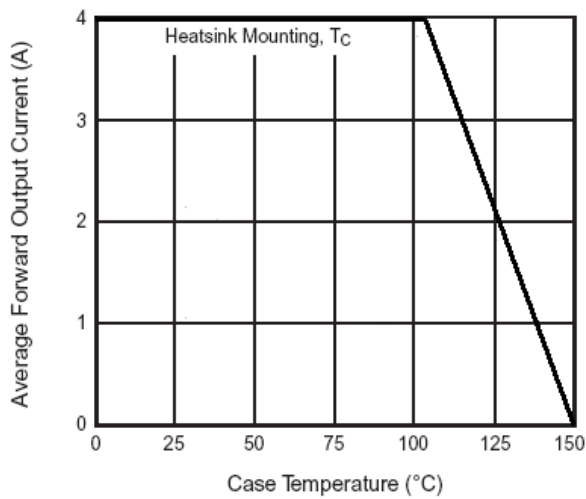


Figure 1. Derating Curve Output Rectified Current

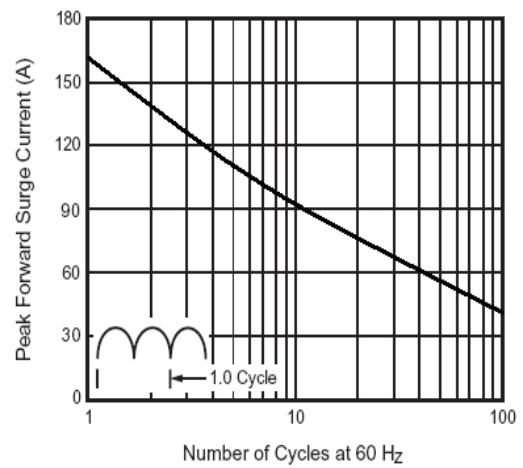


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

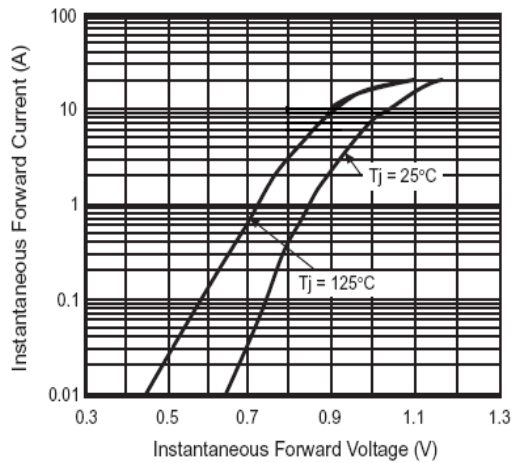


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

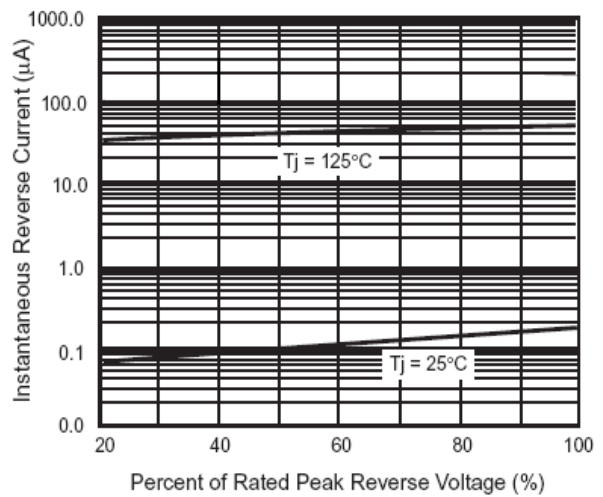


Figure 4. Typical Reverse Characteristics Per Leg

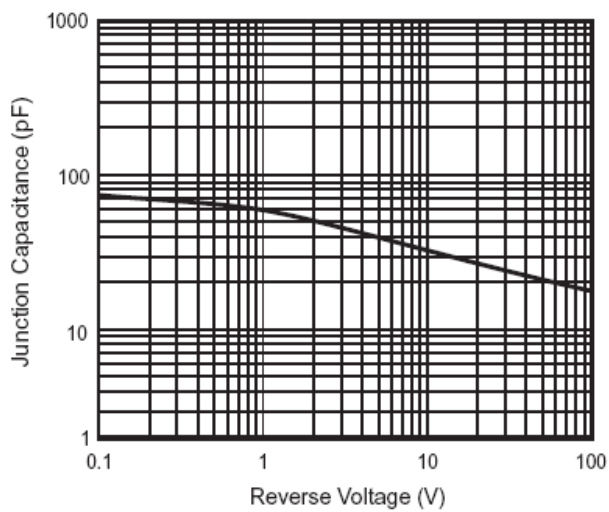


Figure 5. Typical Junction Capacitance Per Leg