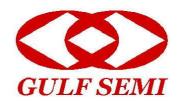
GSIB405 THRU GSIB4100

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V Current:

4.0A



Features

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

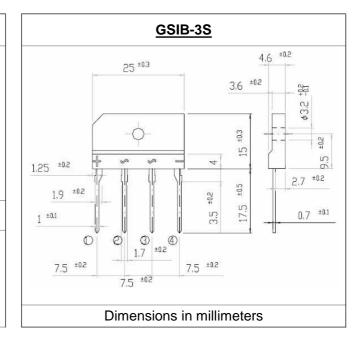
Mechanical Data

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



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%)

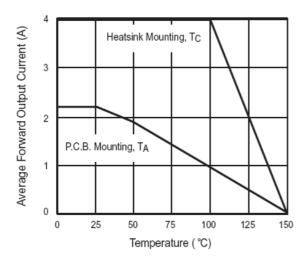
	Symbol	GSIB4 05	GSIB4 10	GSIB4 20	GSIB4 40	GSIB4 60	GSIB4 80	GSIB4 100	units
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward $Tc = 100^{\circ}C \text{ (Note 1)}$ Rectified output current at $Ta = 25^{\circ}C \text{ (Note 2)}$	If(av)	4.0 2.3							Α
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	130							Α
Maximum instantaneous forward voltage drop per leg at 2.0A	Vf	0.95							V
Rating for fusing (t < 8.3ms)	l²t	60							A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg $Ta = 25$ °C $Ta = 125$ °C	lr	10.0 250							μΑ
Maximum thermal resistance per leg (Note2) (Note1)	Rth(ja) Rth(jc)	26.0 5.0							°C/W
Operating junction and storage temperature range	Tj, Tstg	-55 to +150							$^{\circ}$

Note:

- 1. Unit case mounted onAl plate heatsink
- 2. Unit case mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper peads and 0.375"(9.5mm) lead length
- 3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

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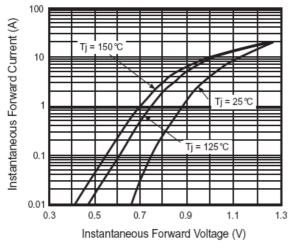
RATINGS AND CHARACTERISTIC CURVES GSIB405 THRU GSIB4100



150
125
100
75
100
Number of Cycles at 60 Hz

Figure 1. Derating Curve Output Rectified Current

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





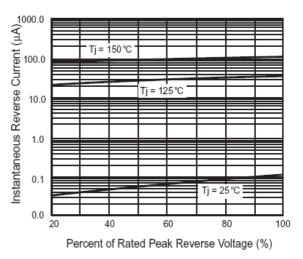


Figure 4. Typical Reverse Characteristics Per Leg

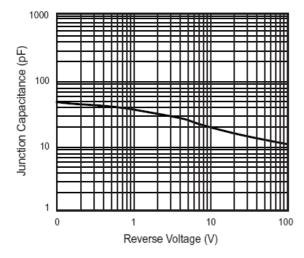


Figure 5. Typical Junction Capacitance Per Leg

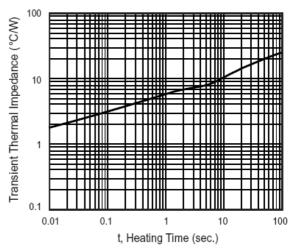


Figure 6. Typical Transient Thermal Impedance Per Leg

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