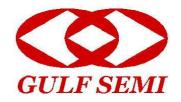
GSIB4A05 THRU GSIB4A100

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

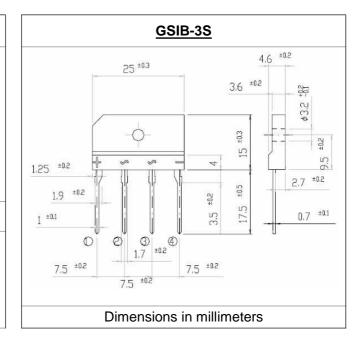
Mechanical Data

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 A05	GSIB4 A10	GSIB4 A20	GSIB4 A40	GSIB4 A60	GSIB4 A80	GSIB4 A100	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							А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	80							Α
Maximum instantaneous forward voltage drop per leg at 2.0A	Vf	1.0							V
Rating for fusing (t < 8.3ms)	l²t	32							A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg $Ta = 25$ °C $Ta = 125$ °C	lr	5.0 400							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 GSIB4A05 THRU GSIB4A100

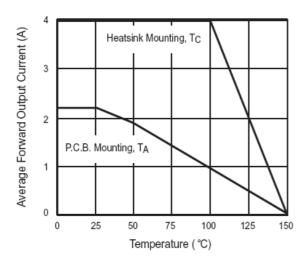


Figure 1. Derating Curve Output Rectified Current

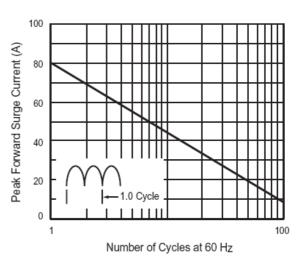


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current
Per Leg

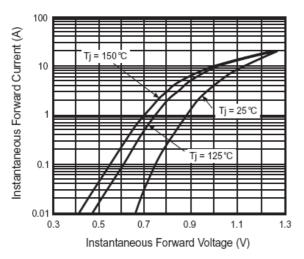


Figure 3. Typical Forward Characteristics Per Leg

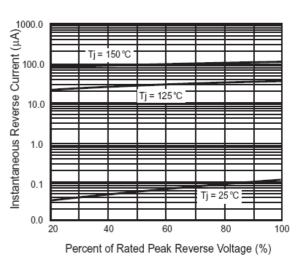


Figure 4. Typical Reverse Characteristics Per Leg

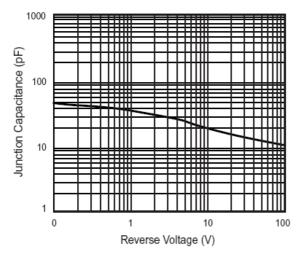


Figure 5. Typical Junction Capacitance Per Leg

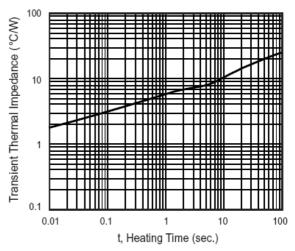


Figure 6. Typical Transient Thermal Impedance Per Leg

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