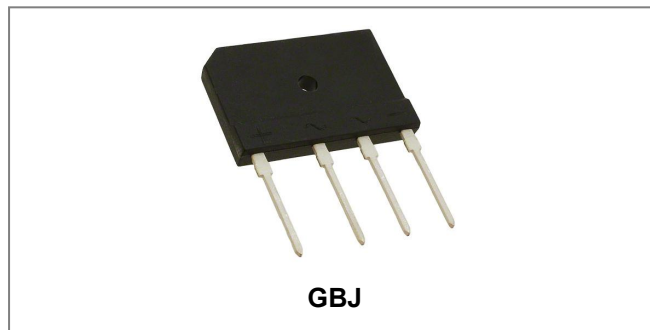


GBJ2510-A

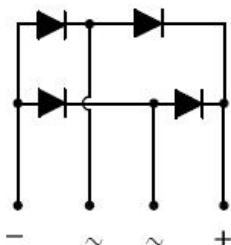
Single-Phase 25.0A Glass Passivated Bridge Rectifier



Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0
- “-A” is an AEC-Q101 qualified device
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: GBJ, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version

Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Type Number	Symbol	GBJ2510-A	Units
Marking Code		GBJ2510	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	1000	V
RMS Reverse Voltage	V_{RMS}	700	V
Average forward rectified output current @ $T_A=100^{\circ}\text{C}$	$I_{(AV)}$	25.0	A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300	A

Electrical Characteristics@T_A=25°C unless otherwise specified

Type Number	Symbol	GBJ2510-A	Units
Forward Voltage (per element) @I _F =12.5A @I _F =25A	V _F	1.0 1.1	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}	10.0 500	μA
Typical Junction Capacitance(per leg) (Note 1)	C _J	85	pF

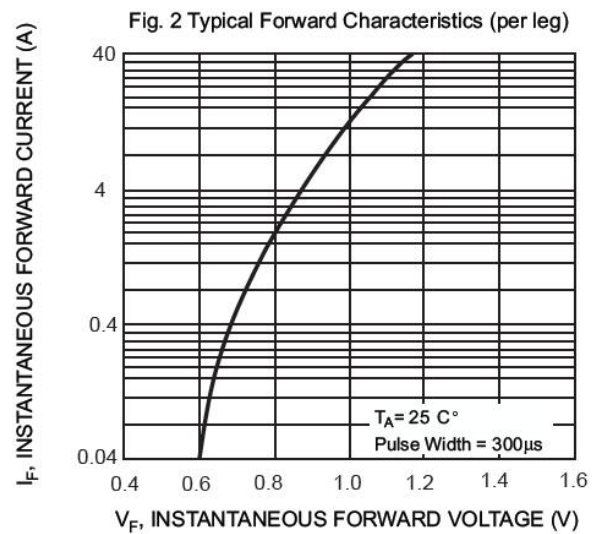
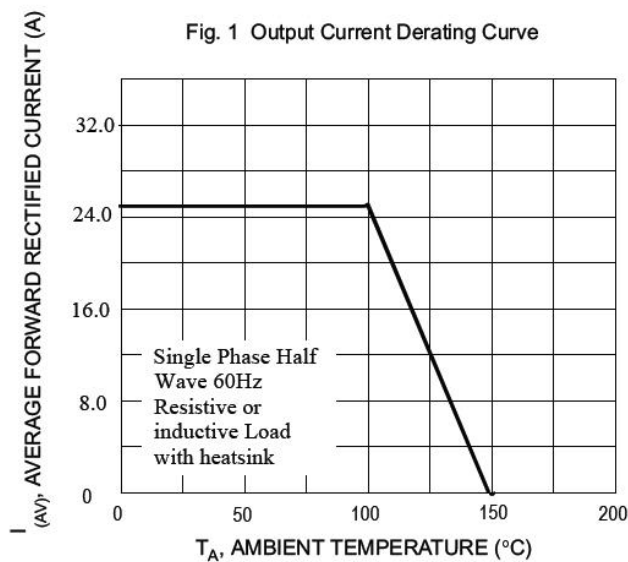
* Pulse width < 300 μs, duty cycle < 2%

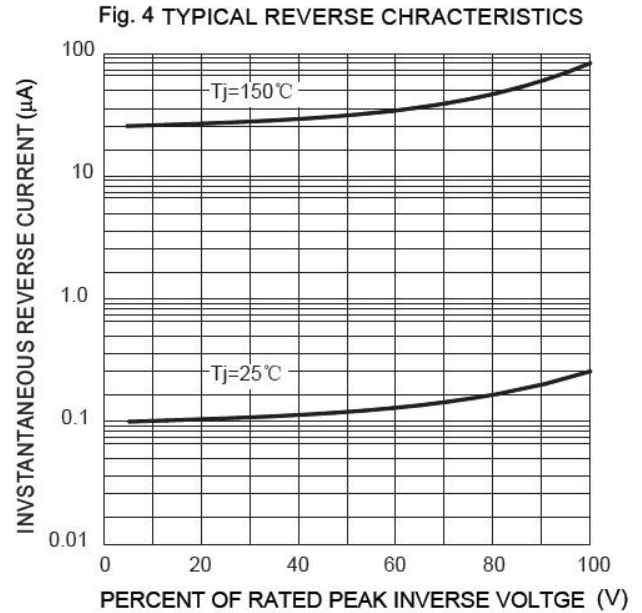
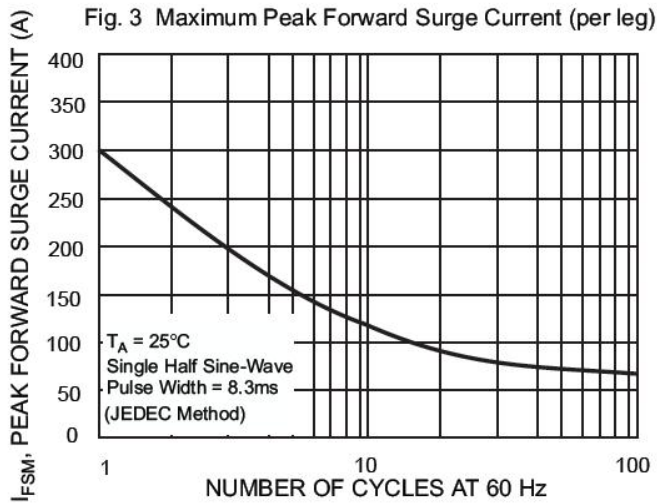
Thermal-Mechanical Specifications:

Type Number	Symbol	GBJ2510-A	Units
Between Junction and Ambient, Without heatsink Between Junction and Case, Without heatsink	R _{θJA} R _{θJc}	22 1.0	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Note: 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

Ratings and Characteristics Curves



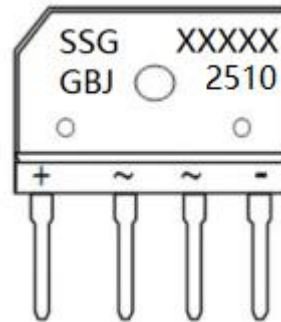


Ordering Information

Device	Package	Plating	Shipping
GBJ2510-A	GBJ (Pb-Free)	Pure Sn	15pcs / tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram

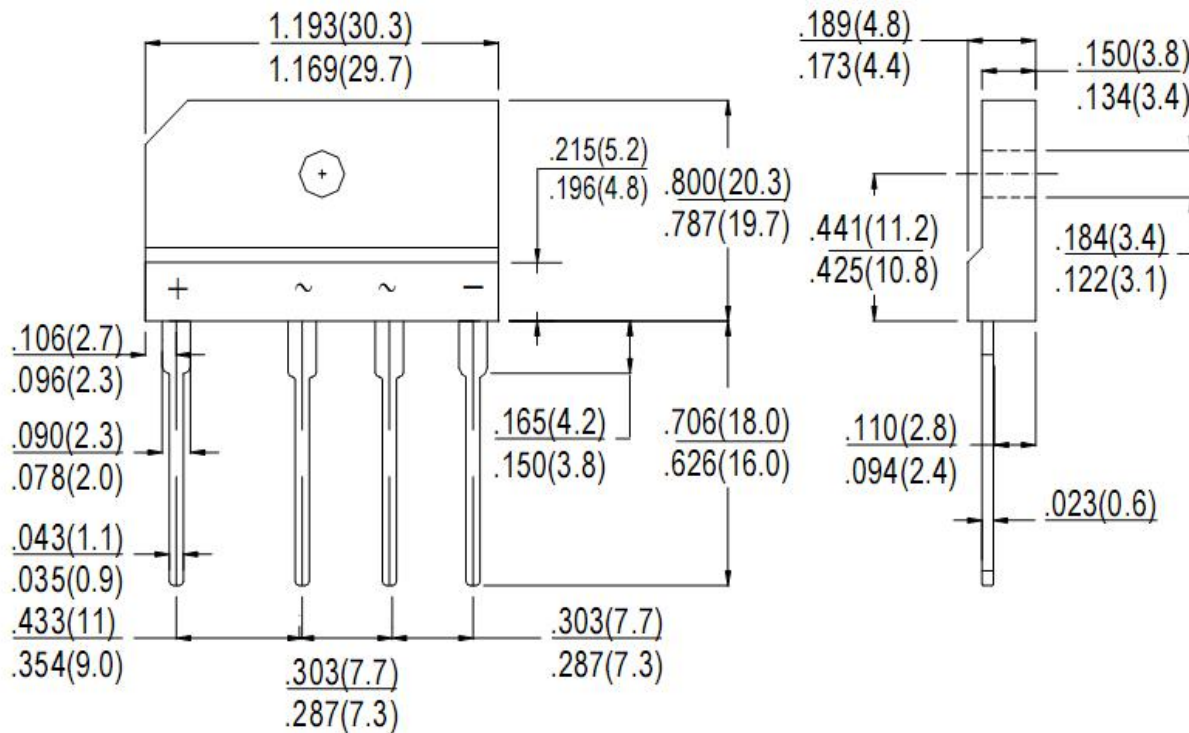


Where XXXXX is YYWWL

- SSG = SSG
- YY = Year
- WW = Week
- L = Lot Number
- GBJ2510 = Type Number

Cautions: Molding resin
Epoxy resin UL:94V-0

Mechanical Dimensions GBJ (Inches/Millimeters)





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