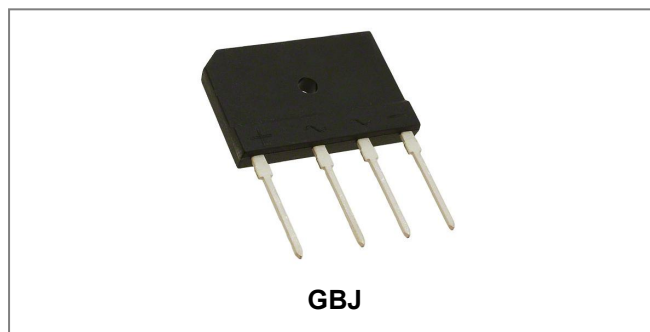


## GBJ1510-A

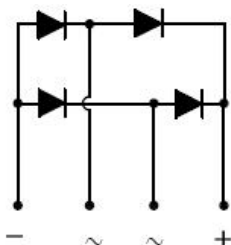
### Single-Phase 15.0A Glass Passivated Bridge Rectifier



#### 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	GBJ1510-A	Units
Marking code		<b>GBJ1510</b>	
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 @ $T_A = 100^{\circ}\text{C}$	$I_{(AV)}$	15.0	A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200	A

**Electrical Characteristics@T<sub>A</sub>=25°C unless otherwise specified**

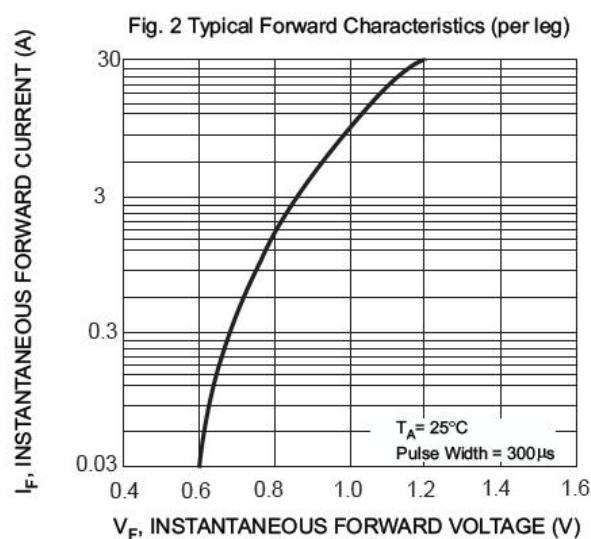
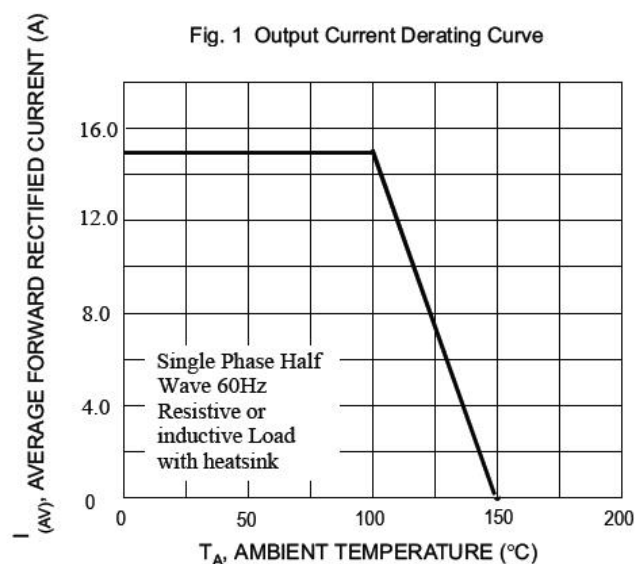
Type Number	Symbol	GBJ1510-A	Units
Forward Voltage (per element) @I <sub>F</sub> =7.5A @I <sub>F</sub> =15A	V <sub>F</sub>	1.0 1.1	V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 125°C	I <sub>RM</sub>	10.0 500	μA
Typical Junction Capacitance(per leg) (Note 1)	C <sub>J</sub>	60	pF

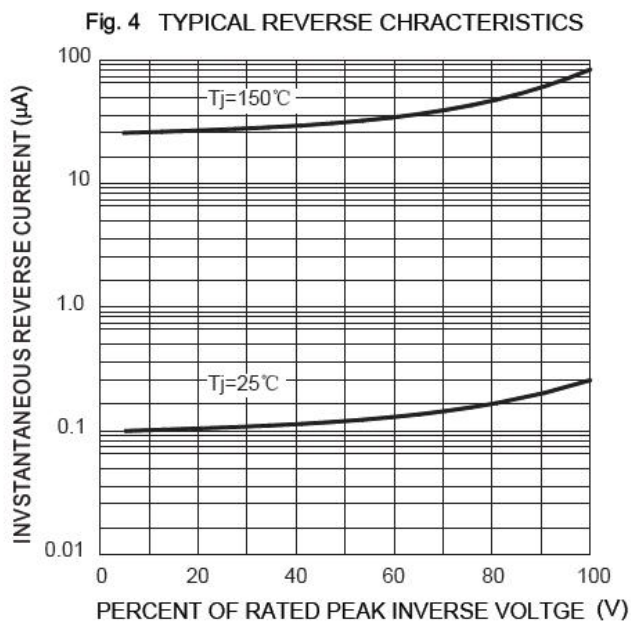
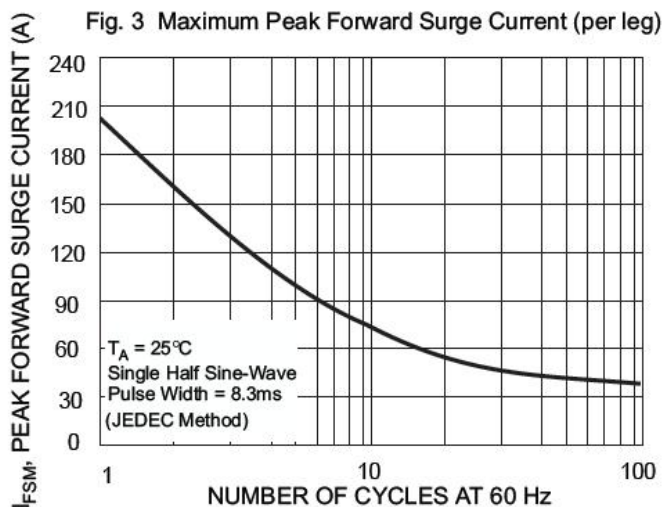
\* Pulse width < 300 μs, duty cycle < 2%

**Thermal-Mechanical Specifications:**

Type Number	Symbol	GBJ1510-A	Units
Typical Thermal Resistance Junction to Ambient, Without heatsink Typical Thermal Resistance Junction to Case, With heatsink (Note 2)	R <sub>θJA</sub> R <sub>θJC</sub>	22 2	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

Note: 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.  
2-The heatsink are dimensioned as 25\*17\*4cm and the material is aluminum.

**Ratings and Characteristics Curves**


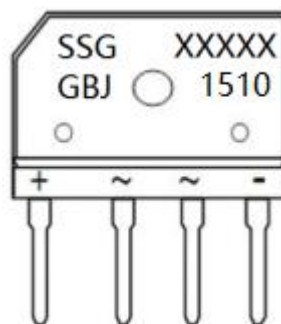


### Ordering Information

Device	Package	Plating	Shipping
GBJ1510-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

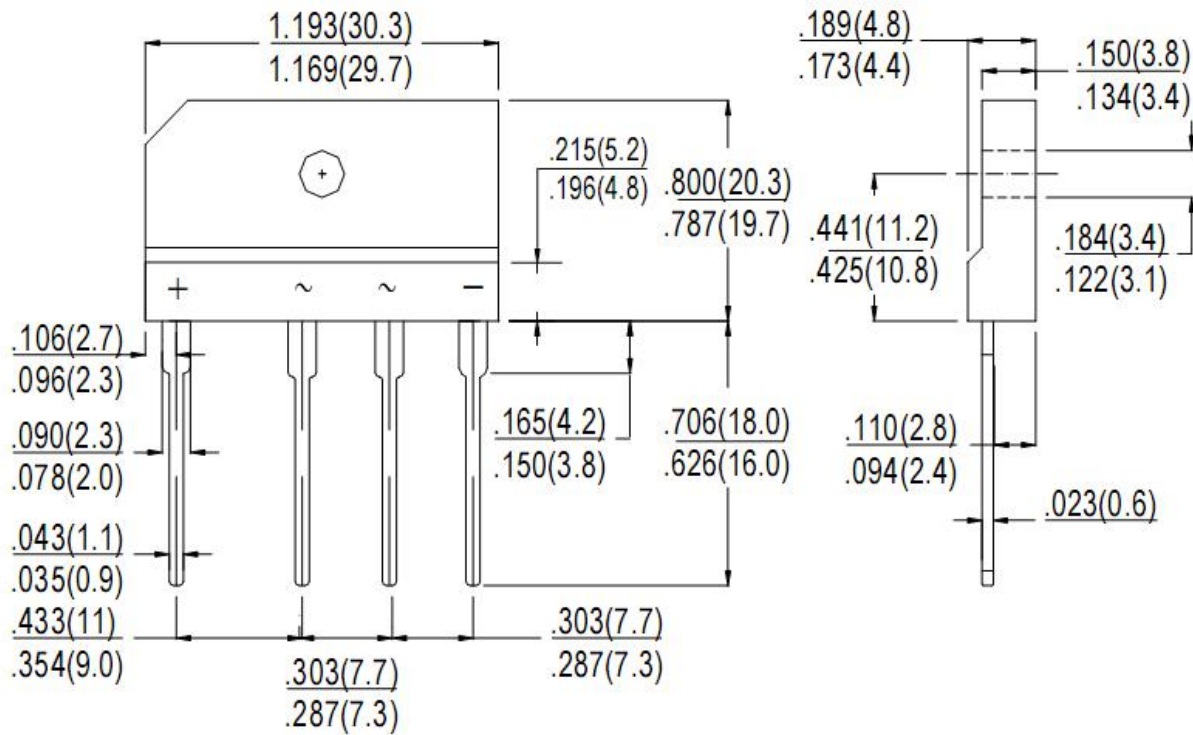


Where XXXXX is YYWWL

SSG = SSG  
YY = Year  
WW = Week  
L = Lot Number  
GBJ1510 = Marking code

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

**Mechanical Dimensions GBJ (Inches/Millimeters)**





**DISCLAIMER:**

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