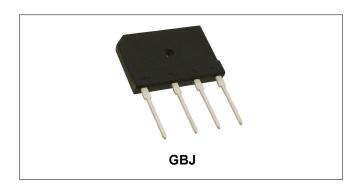




GBJ610-A

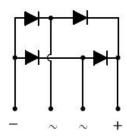
Single-Phase 6.0A Glass Passivated Bridge Rectifier



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 @TA=25°C unless otherwise specified

Type Number	Symbol	GBJ610-A	Units
Marking code		GBJ610	
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 (Note 1) @T _A = 100°C	Io	6.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150	А

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Electrical Characteristics@TA=25°C unless otherwise specified

Type Number	Symbol	GBJ610-A	Units
Forward Voltage (per element) @I _F =3A @I _F =6A	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}	5.0 500	μA
Typical Junction Capacitance(per leg) (Note 2)	CJ	45	pF

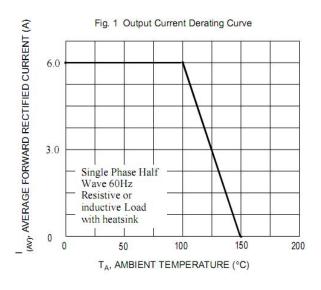
^{*} Pulse width < 300 µs, duty cycle < 2%

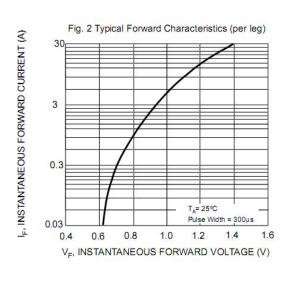
Thermal-Mechanical Specifications:

Type Number	Symbol	GBJ610-A	Units
Typical Thermal Resistance (per leg)	Reja Rejl	26 2.5	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

Ratings and Characteristics Curves



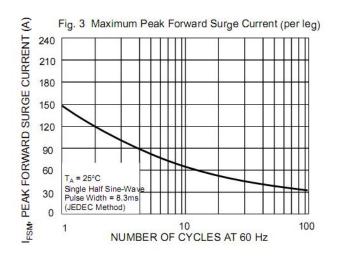


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^{2.} Measured at 1.0 MHz and applied reverse voltage of 5.0V D.C.



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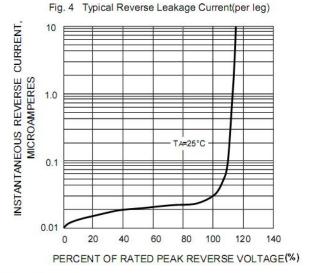


FIG.5 TYPICAL REVERSE CHRACTERISTICS

100

Tj=150°C

Tj=25°C

0.01

0 20 40 60 80 100

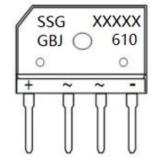
PERCENT OF RATED PEAK INVERSE VOLTGE (V)

Ordering Information

Device	Package	Plating	Shipping
GBJ610-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

 GBJ610
 = Marking code

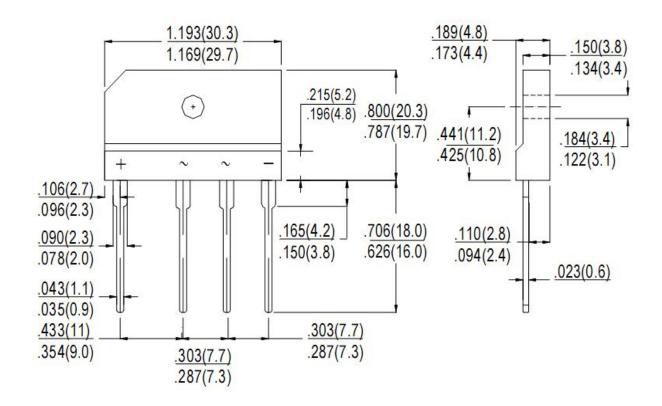
Cautions: Molding resin Epoxy resin UL:94V-0

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Mechanical Dimensions GBJ (Inches/Millimeters)



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