

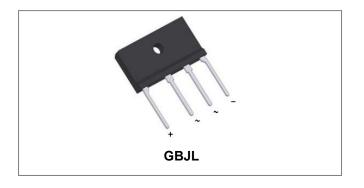
GBJL15J THRU GBJL15M

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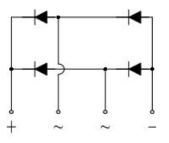
RoHS 🗭

GBJL15J-GBJL15M

Single-Phase 15.0A Glass Passivated Bridge Rectifier



Circuit Diagram



Features

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

Mechanical Data

- Case: GBJL, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on body
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version
- Mounting Torgue: 10cm-kg (8.8inches-lbs) max;
- Recommend Torgue:Mounting Torgue: 5.7cm-kg (5inches-lbs);

Maximum Ratings @T_A=25°C unless otherwise specified

Type Number	Symbol	GBJL15J	GBJL15K	GBJL15M	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{DC}	600	800	1000	v
RMS Reverse Voltage	V _{RMS}	420	560	700	V
Average forward rectified output current @Tc =110°C	I _(AV)	15.0		A	
Peak Forward Surge Current,8.3ms single half- sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	240		A	
Rating for fusing (t<8.3ms)	l²t	240		A ² sec	

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Electrical Characteristics@T_A=25°C unless otherwise specified

Type Number	Symbol	GBJL15J	GBJL15K	GBJL15M	Units
Forward Voltage (per element) @I _F =7.5A	V _F		1.0		v
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	I _{RM}		5 150		μA

* Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

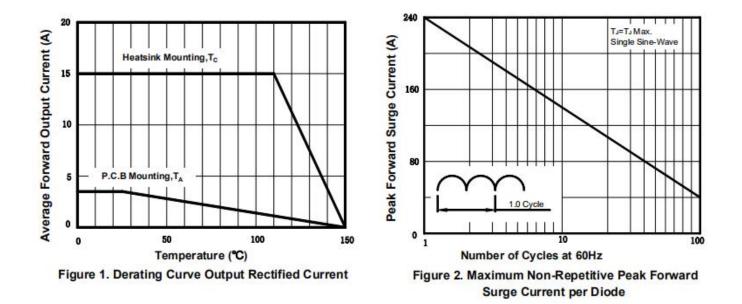
Type Number	Symbol	GBJL15J	GBJL15K	GBJL15M	Units
Typical Thermal Resistance (per leg)	R _{eja} R _{ejl}	22 2.5		°C/W	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150		°C	

Notes: 1. Unit case mounted on AI plate heatsink;

2. Units mounted on PCB without heatsink;

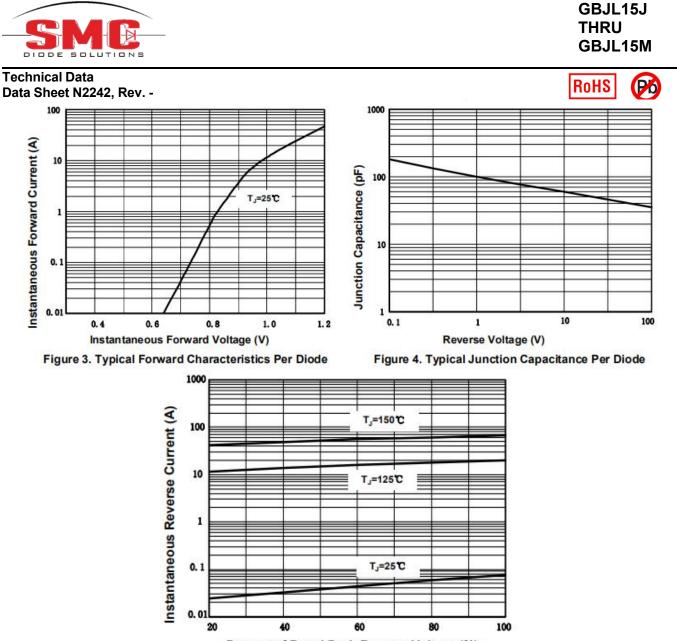
3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

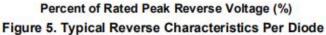
Ratings and Characteristics Curves



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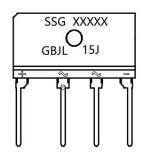




Ordering Information

Device	Package	Plating	Shipping
GBJL15J THRU GBJL15M	GBJL(Pb-Free)	Pure Sn	20pcs / tube

Marking Diagram



Where XXXXX is YYWWL

SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number
GBJL15J	= Type Number

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

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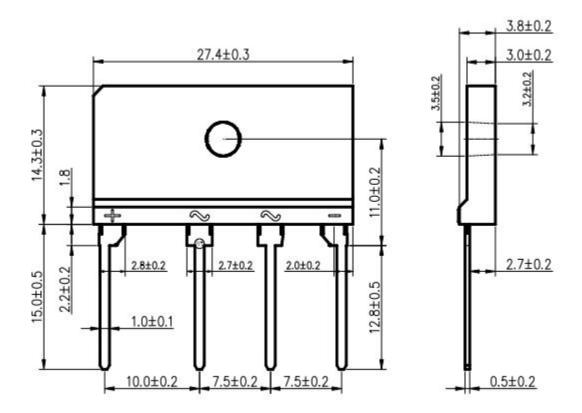


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GBJL15M

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Mechanical Dimensions GBJL (Millimeters)



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