

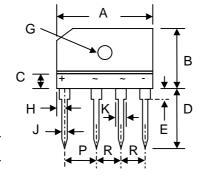


Max

15A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705



29.7 30.3 20.3 В 19.7 С 5.0 D 17.0 18.0 Ε 3.8 4.2 G 3.1Ø 3.4Ø Н 2.3 2.7 J 0.9 1.1 1.8 2.2 L 0.6 8.0 М 4.4 4.8 Ν 3.4 3.8 Р 9.8 10.2 R 7.3 7.7 S 10.8 11.2 2.7 2.3 All Dimensions in mm

GBJ-6

Min

Dim

Mechanical Data

- Case: GBJ-6, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 7.0 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 10 cm-kg (8.8 in-lbs) Max.
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBJ 15A	GBJ 15B	GBJ 15D	GBJ 15G	GBJ 15J	GBJ 15K	GBJ 15M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _C = 100°C (Note 1)	lo	15					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	240					А		
Forward Voltage per diode @I _F = 7.5A	VFM	1.05				V			
	lR	10 250				μΑ			
Typical Thermal Resistance per leg (Note 2)	$R_{ heta}JA$				22				°C/W
Typical Thermal Resistance per leg (Note 1) R_{θ} JC		1.5					°C/W		
Operating and Storage Temperature Range T _{j,} TsTg		-55 to +150					°C		

Note: 1. Device mounted on 300 x 300 x 1.6mm thick Cu plate heatsink.

2. Device mounted on P.C.B. without heatsink.

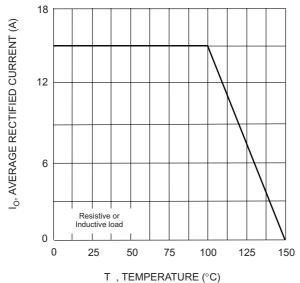


Fig. 1 Forward Current Derating Curve

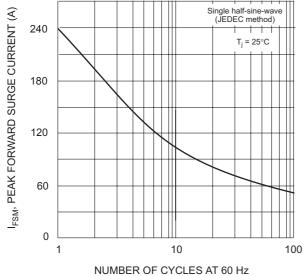


Fig. 3 Maximum Non-Repetitive Surge Current

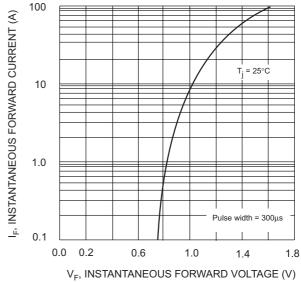
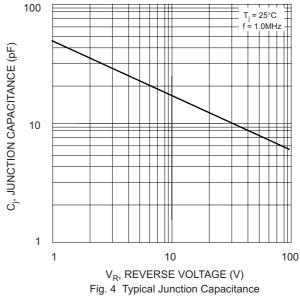
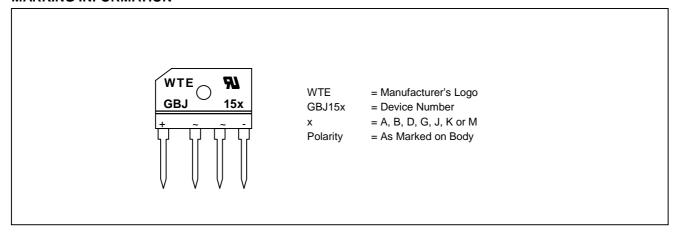


Fig. 2 Typical Fwd Characteristics



MARKING INFORMATION



PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
475 x 40 x 7	15	490 x 145 x 135	750	510 x 305 x 160	1,500	16.0

Note: 1. Anti-static tube, water clear color.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
GBJ15A	SIL Bridge	15 Units/Tube		
GBJ15B	SIL Bridge	15 Units/Tube		
GBJ15D	SIL Bridge	15 Units/Tube		
GBJ15G	SIL Bridge	15 Units/Tube		
GBJ15J	SIL Bridge	15 Units/Tube		
GBJ15K	SIL Bridge	15 Units/Tube		
GBJ15M	SIL Bridge	15 Units/Tube		

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBJ15A-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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