

GBJ15A - GBJ15M

15A GLASS PASSIVATED 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

Mechanical Data

Case: Molded Plastic

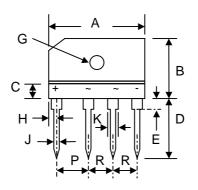
Terminals: Plated Leads Solderable per

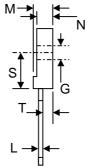
MIL-STD-202, Method 208 Polarity: As Marked on Body

Weight: 4.0 grams (approx.)

Mounting Position: Any

Marking: Type Number





GBJ-6						
Dim	Min	Max				
Α	29.7	30.3				
В	19.7	20.3				
С	_	5.0				
D	17.0	18.0				
Е	3.8	4.2				
G	3.1Ø	3.4Ø				
Н	2.3	2.7				
J	0.9	1.1				
K	1.8	2.2				
L	0.6	0.8				
М	4.4	4.8				
N	3.4	3.8				
Р	9.8	10.2				
R	7.3	7.7				
S	10.8	11.2				
T	2.3	2.7				
All Dimensions in mm						

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	10 500						μΑ	
Typical Thermal Resistance per leg (Note 1)	RθJC	2.7						°C/W	
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150						°C	

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

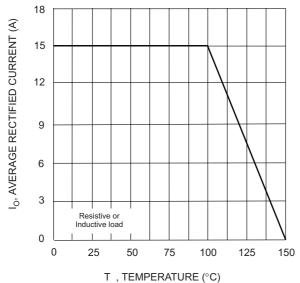


Fig. 1 Forward Current Derating Curve

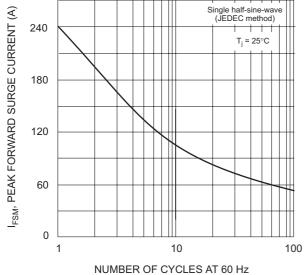


Fig. 3 Maximum Non-Repetitive Surge Current

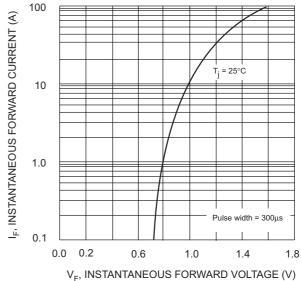
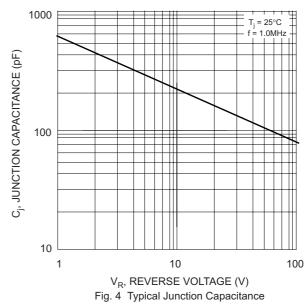


Fig. 2 Typical Fwd Characteristics, per element



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.

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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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