

GBJ8A – GBJ8M

8.0A GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER

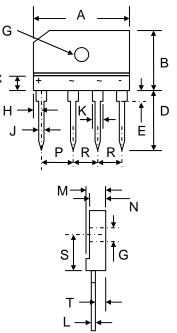


Features

- **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

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: 0.8 N.m Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



GBJ-6					
Dim	Min	Max			
Α	29.7	30.3			
В	19.7	20.3			
С	4.8	5.8			
D	17.0	18.0			
E	3.6	4.2			
G	3.1Ø	3.4Ø			
Н	2.3	2.7			
J	0.9	1.1			
К	2.0	2.4			
L	0.6	0.8			
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			
Т	2.5	2.9			
All Dimensions in mm					

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

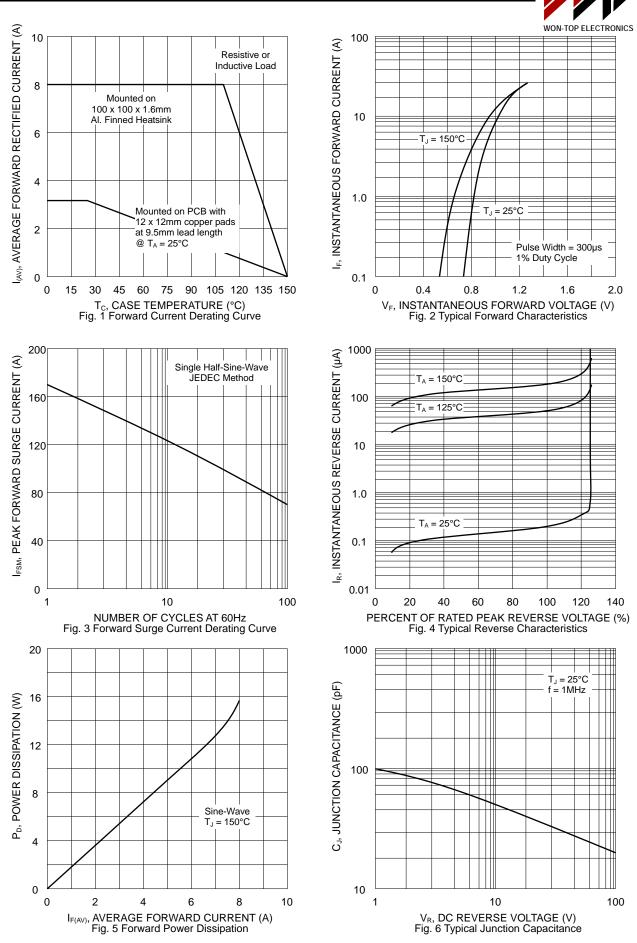
С

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

Characteristic	Symbol	GBJ8A	GBJ8B	GBJ8D	GBJ8G	GBJ8J	GBJ8K	GBJ8M	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 $@T_c = 110^{\circ}C$ (Note 1)	lo	8.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	170						A	
Forward Voltage per leg $@I_F = 4.0A$	Vгм	1.05						V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Irm	5.0 500						μΑ	
I ² t Rating for Fusing (t < 8.3ms)	l ² t	166						A ² s	
Typical Junction Capacitance (Note 2)	CJ	55						pF	
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R JA R JC	26 2.8					°C/W		
RMS Isolation Voltage Terminals to Case, t = 1min	Viso	2500						V	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150						°C	

Note: 1. Mounted on 100 x 100 x 1.6mm thick AI. heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.

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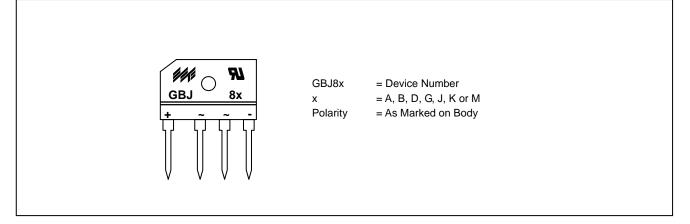


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MARKING INFORMATION



PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
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.



Product No.	Package Type	Shipping Quantity		
GBJ8A	SIL Bridge	15 Units/Tube		
GBJ8B	SIL Bridge	15 Units/Tube		
GBJ8D	SIL Bridge	15 Units/Tube		
GBJ8G	SIL Bridge	15 Units/Tube		
GBJ8J	SIL Bridge	15 Units/Tube		
GBJ8K	SIL Bridge	15 Units/Tube		
GBJ8M	SIL Bridge	15 Units/Tube		

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBJ8A-LF.

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