



4.0A 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

G В С D

Dim Min Max 24.7 Α 25.3 В 14.7 15.3 С 3.0 5.0 D 17.0 18.0 Ε 3.7 3.3 3.1Ø 3.6Ø G Н 1.05 1.45 1.7 2.1 K 0.9 1.1 1.5 1.9 4.4 4.8 Ν 3.4 3.8 P 7.3 7.7 R 9.5 10.1 S 2.5 2.9 Т 0.6 0.8 All Dimensions in mm

KBJ-4

Mechanical Data

Case: KBJ-4, Molded Plastic

Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

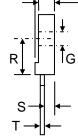
Polarity: As Marked on Body

Weight: 4.6 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



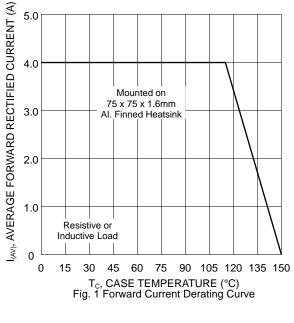
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

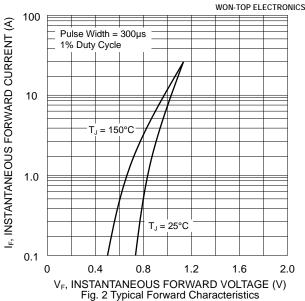
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

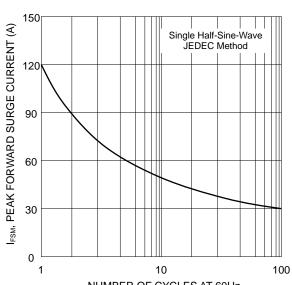
Characteristic	Symbol	GBJ4A	GBJ4B	GBJ4D	GBJ4G	GBJ4J	GBJ4K	GBJ4M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current @T _C = 115°C (Note 1)	lo				4.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSМ				120				А
Forward Voltage per leg @I _F = 2.0A	VFM	1.05				٧			
	lгм	5.0 500				μΑ			
I ² t Rating for Fusing (t < 8.3ms)	l ² t				93				A ² s
Typical Junction Capacitance (Note 2)	Cı	100 45				pF			
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R JA R JC	30 5.5						°C/W	
RMS Isolation Voltage Terminals to Case, t = 1min	Viso	2500						V	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C		

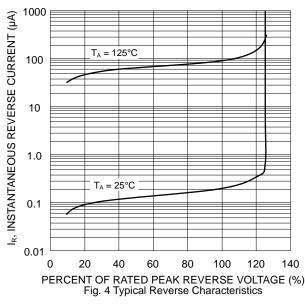
Note: 1. Mounted on 75 x 75 x 1.6mm thick Al. heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.

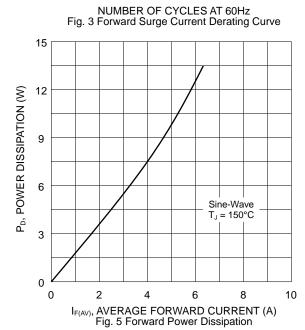


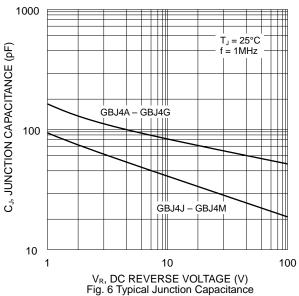






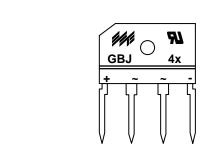








MARKING INFORMATION



GBJ4x = Device Number x = A, B, D, G, J, K or M Polarity = As Marked on Body

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)	
525 x 35 x 7	20	542 x 135 x 135	1,000	557 x 270 x 270	4,000	30.0

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



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
GBJ4A	SIL Bridge	20 Units/Tube		
GBJ4B	SIL Bridge	20 Units/Tube		
GBJ4D	SIL Bridge	20 Units/Tube		
GBJ4G	SIL Bridge	20 Units/Tube		
GBJ4J	SIL Bridge	20 Units/Tube		
GBJ4K	SIL Bridge	20 Units/Tube		
GBJ4M	SIL Bridge	20 Units/Tube		

- 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, GBJ4A-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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