
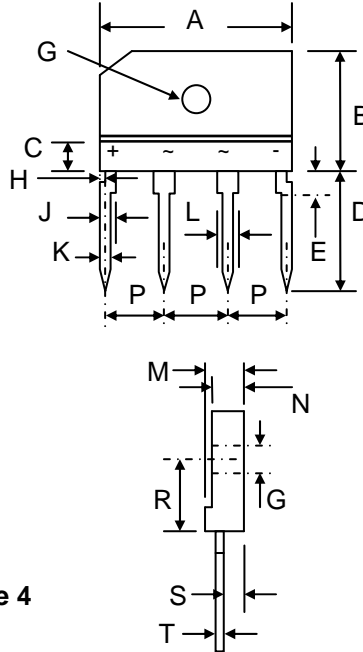


### Features

- 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: 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**



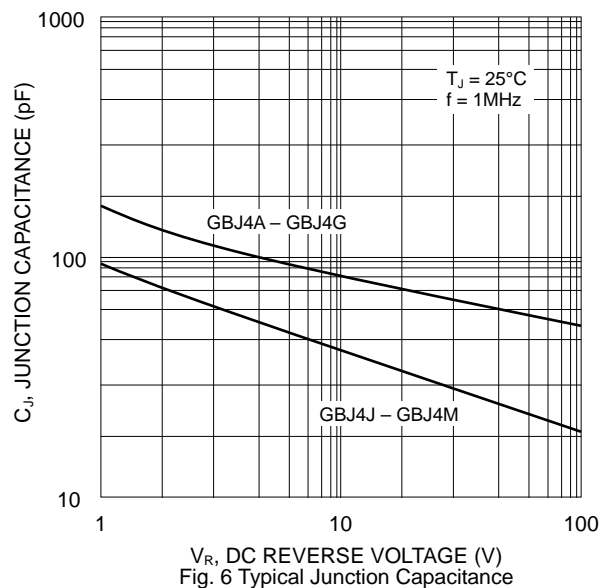
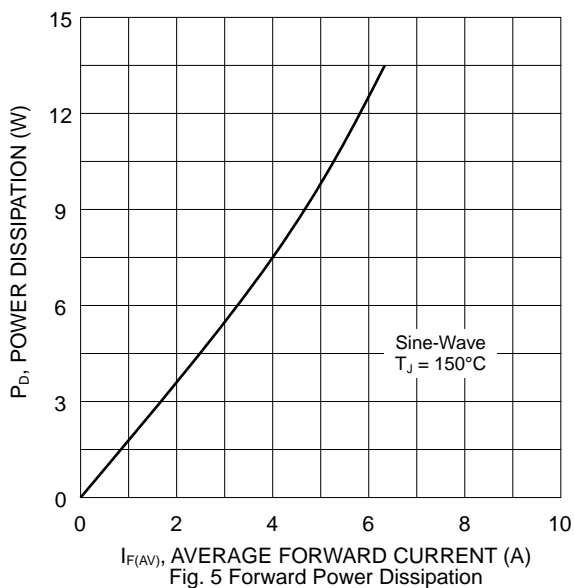
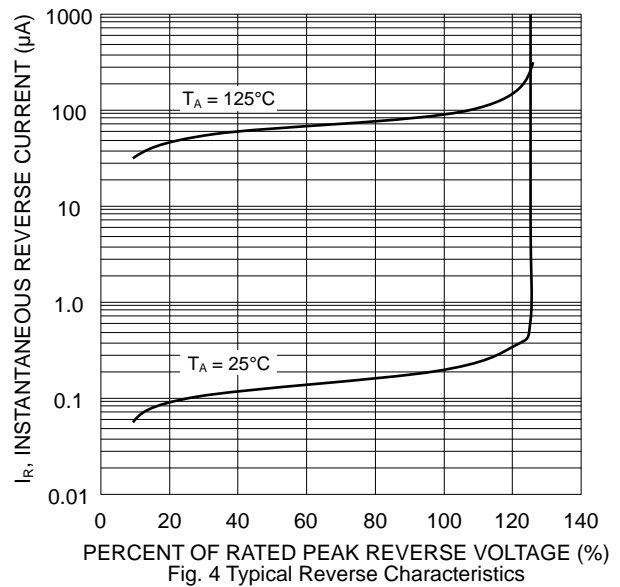
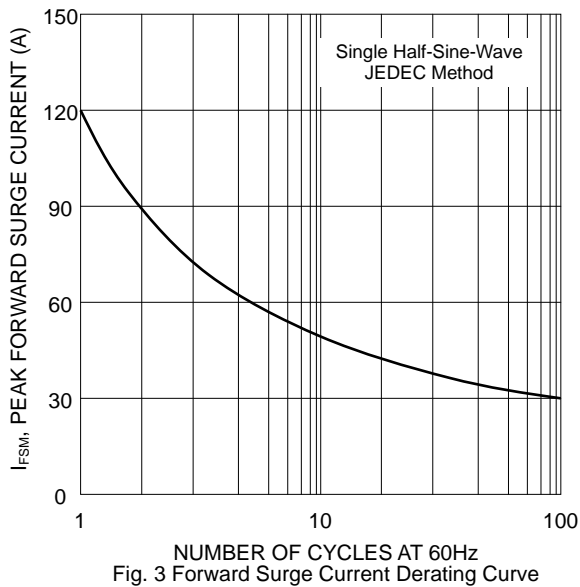
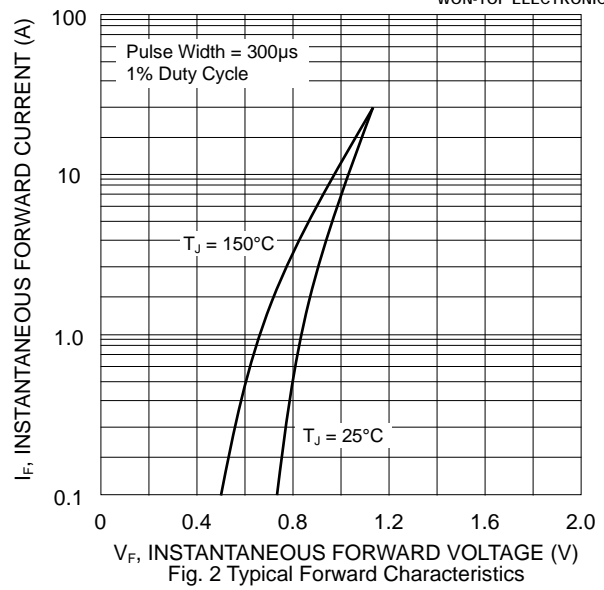
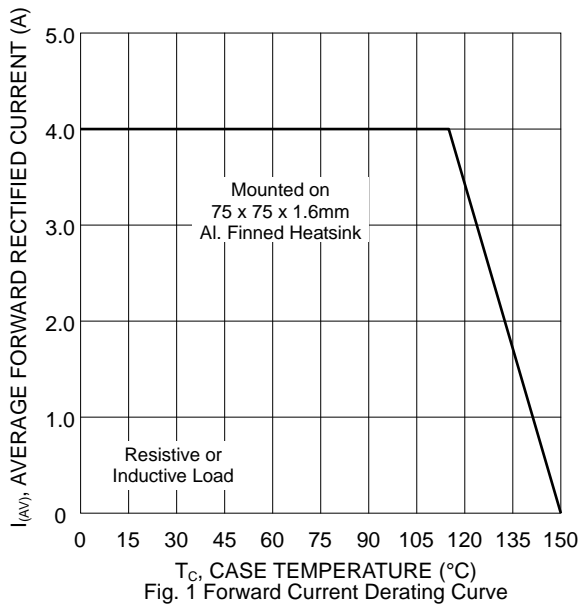
KBJ-4		
Dim	Min	Max
A	24.7	25.3
B	14.7	15.3
C	3.0	5.0
D	17.0	18.0
E	3.3	3.7
G	3.1Ø	3.6Ø
H	1.05	1.45
J	1.7	2.1
K	0.9	1.1
L	1.5	1.9
M	4.4	4.8
N	3.4	3.8
P	7.3	7.7
R	9.5	10.1
S	2.5	2.9
T	0.6	0.8
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

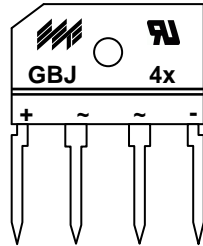
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBJ4A	GBJ4B	GBJ4D	GBJ4G	GBJ4J	GBJ4K	GBJ4M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>C</sub> = 115°C (Note 1)	I <sub>O</sub>	4.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	120							A
Forward Voltage per leg @I <sub>F</sub> = 2.0A	V <sub>FM</sub>	1.05							V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 125°C	I <sub>RM</sub>	5.0 500							μA
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	93							A <sup>2</sup> s
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	100				45			pF
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R <sub>JA</sub> R <sub>JC</sub>	30 5.5							°C/W
RMS Isolation Voltage Terminals to Case, t = 1min	V <sub>ISO</sub>	2500							V
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-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 L x W x H (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
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

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **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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