
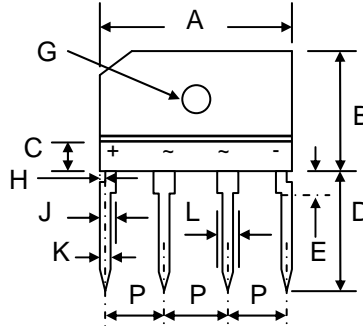


### Features

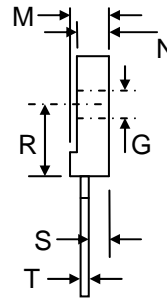
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
-  Recognized File # E157705



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		

### 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**

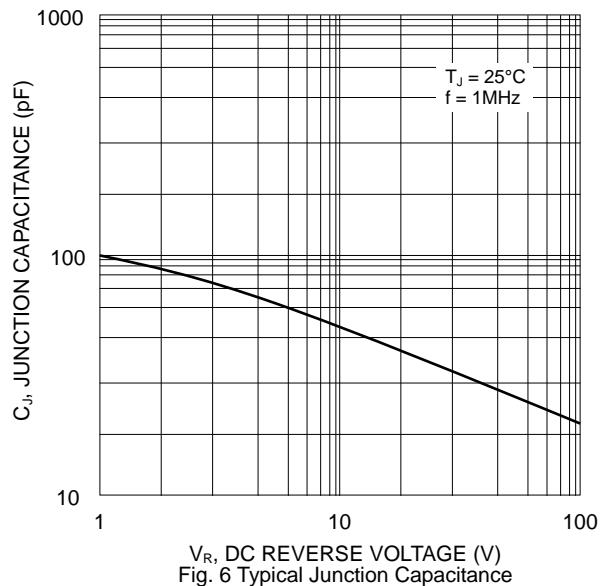
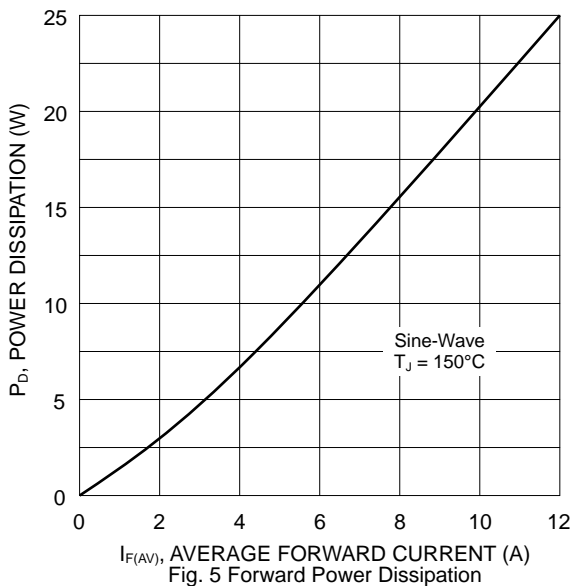
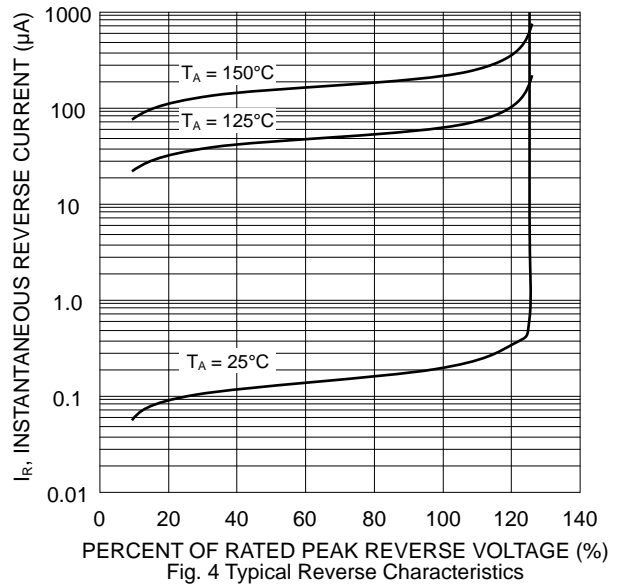
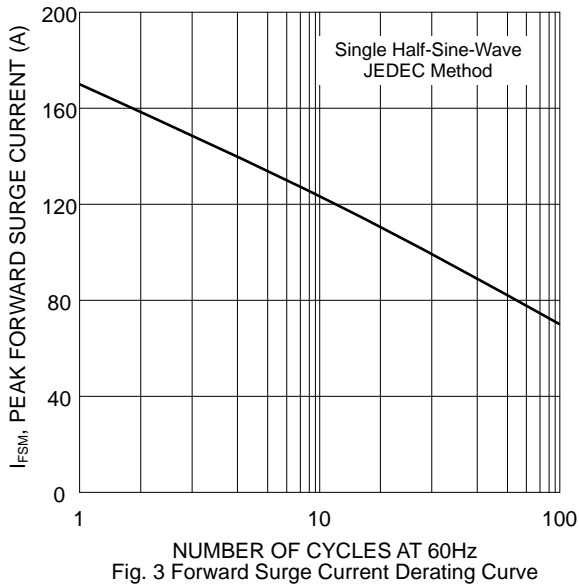
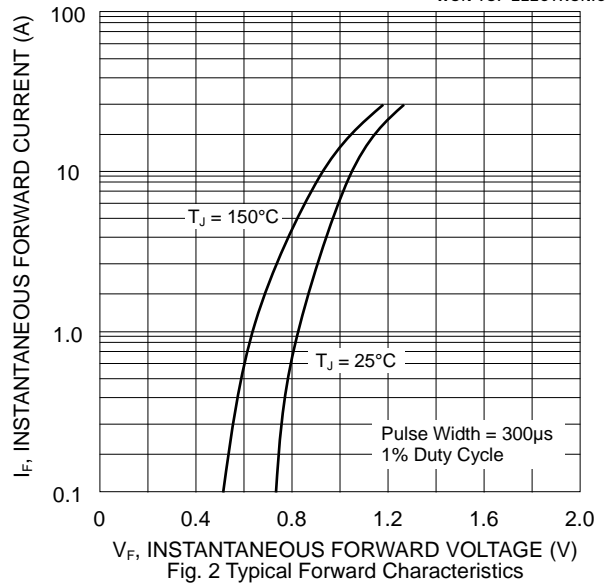
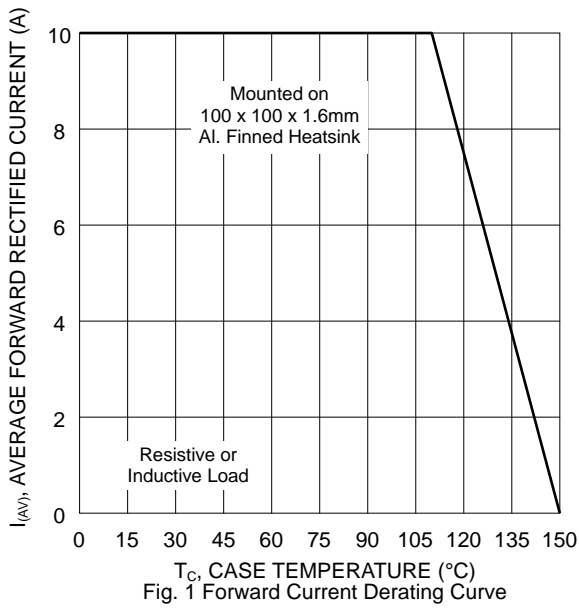


### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

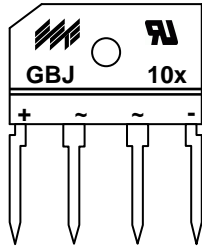
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBJ 10A	GBJ 10B	GBJ 10D	GBJ 10G	GBJ 10J	GBJ 10K	GBJ 10M	Unit	
Peak Repetitive Reverse Voltage	$V_{RRM}$									
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	$V_R$									
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V	
Average Rectified Output Current @ $T_C = 110^\circ\text{C}$ (Note 1)	$I_o$	10								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	170								A
Forward Voltage per leg @ $I_F = 5.0\text{A}$	$V_{FM}$	1.05								V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	$I_{RM}$	10 500								$\mu\text{A}$
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	120								$\text{A}^2\text{s}$
Typical Junction Capacitance (Note 2)	$C_J$	55								pF
Thermal Resistance Junction to Ambient (Note 3)	$R_{JA}$	26								$^\circ\text{C}/\text{W}$
Thermal Resistance Junction to Case (Note 1)	$R_{JC}$	1.9								
RMS Isolation Voltage Terminals to Case, $t = 1\text{min}$	$V_{ISO}$	2500								V
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150								$^\circ\text{C}$

- Note: 1. Mounted on 100 x 100 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



GBJ10x = 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
GBJ10A	SIL Bridge	20 Units/Tube
GBJ10B	SIL Bridge	20 Units/Tube
GBJ10D	SIL Bridge	20 Units/Tube
GBJ10G	SIL Bridge	20 Units/Tube
GBJ10J	SIL Bridge	20 Units/Tube
GBJ10K	SIL Bridge	20 Units/Tube
GBJ10M	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, GBJ10A-LF.**

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**Won-Top Electronics Co., Ltd.**  
No. 44 Yu Kang North 3rd Road,  
Chine Chen Dist., Kaohsiung 806, Taiwan  
**Phone:** 886-7-822-5408 or 886-7-822-5410  
**Fax:** 886-7-822-5417  
**Email:** sales@wontop.com  
**Internet:** <http://www.wontop.com>

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