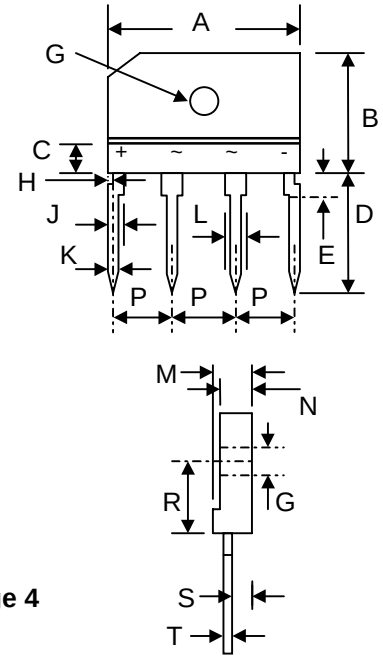
GBJ4A – GBJ4M

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



KBJ-4		
Dim	**Min**	**Max**
A	24.7	25.3
B	14.7	15.3
C	—	4.0
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	1.8	2.2
M	4.4	4.8
N	3.4	3.8
P	7.3	7.7
R	9.3	9.7
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: 6.0 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 10 cm-kg (8.8 in-lbs) 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℃ 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_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @T_C = 115℃ (Note 1)	I_O	4.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							A
Forward Voltage per diode @I_F = 2.0A	V_{FM}	1.0							V
Peak Reverse Current @T_A = 25℃ At Rated DC Blocking Voltage @T_A = 125℃	I_R	10 250							μA
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JA}$	30							℃/W
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JC}$	5.5							℃/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150							℃

Note: 1. Device mounted on 75 x 75 x 1.6mm thick Al plate heatsink.
2. Device mounted on P.C.B. without heatsink.

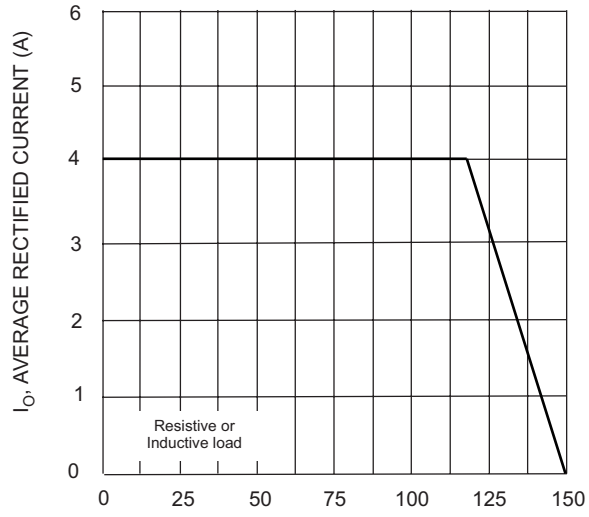


Fig. 1 Forward Current Derating Curve

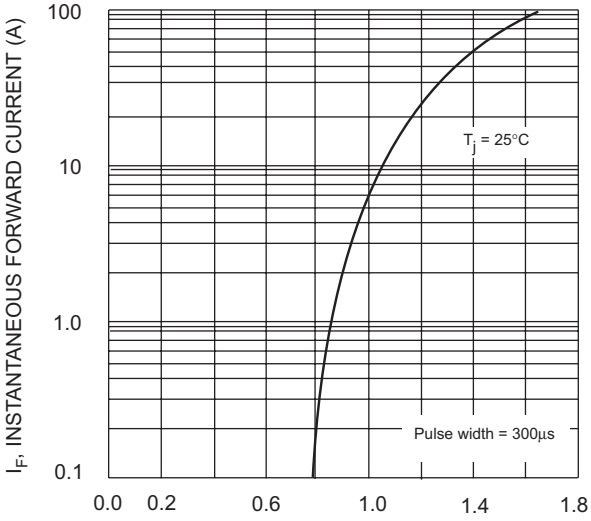


Fig. 2 Typical Fwd Characteristics

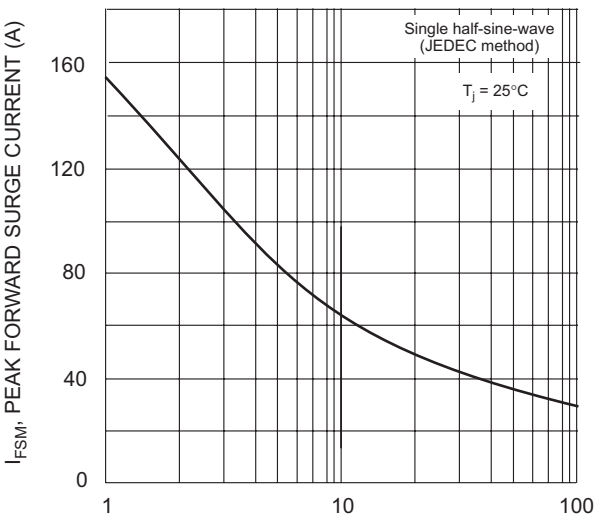


Fig. 3 Maximum Non-Repetitive Surge Current

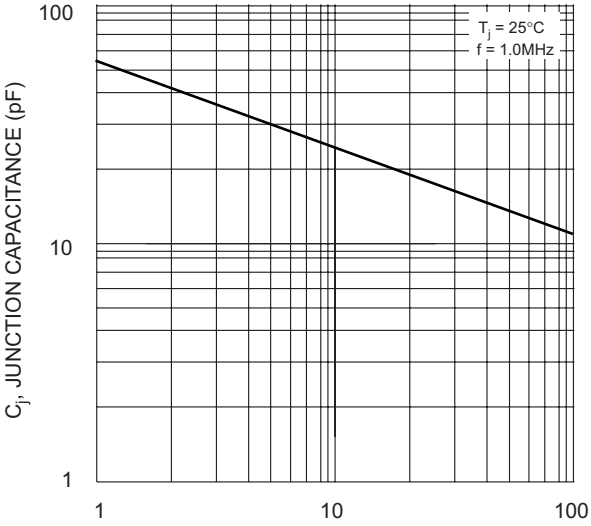
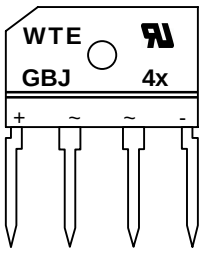


Fig. 4 Typical Junction Capacitance

MARKING INFORMATION



WTE	= Manufacturer's Logo
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 Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBJ4A-LF.**

Won-Top Electronics Co., Ltd.
No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, 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

We power your everyday.

