

KBJ2A – KBJ2M

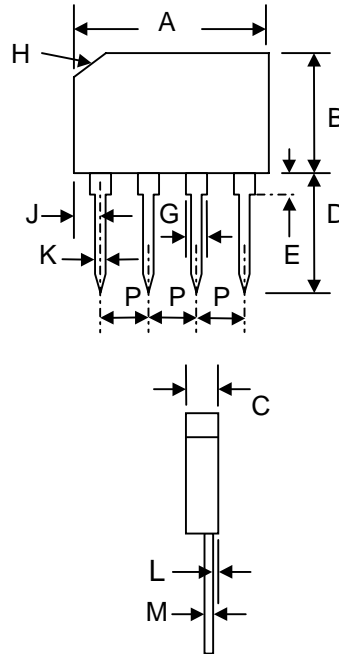
2.0A BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 2.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



KBJ-2		
Dim	Min	Max
A	19.7	20.3
B	10.7	11.3
C	3.8	—
D	13.0	14.0
E	2.3	2.7
G	1.65	—
H	3.17 x 45°	
J	2.3	2.7
K	0.9	1.14
L	0.8	1.2
M	—	0.51
P	4.8	5.3
All Dimensions in mm		

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

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

Characteristic	Symbol	KBJ2A	KBJ2B	KBJ2D	KBJ2G	KBJ2J	KBJ2K	KBJ2M	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 _A = 50°C	I _O	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50							A
I ² t Rating for Fusing (t < 8.35ms)	I ² t	32							A ² s
Forward Voltage (per diode) @I _F = 1.0A	V _{FM}	1.0							V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _C = 100°C	I _R	10 500							μA
Typical Thermal Resistance (per leg) (Note 1)	R _{θJA}	47							K/W
Typical Thermal Resistance (per leg) (Note 2)	R _{θJC}	10							K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

Note: 1. Thermal resistance junction to ambient, mounted on PCB at 9.5mm lead length.
 2. Thermal resistance junction to case, mounted on 5.0 x 4.0 x 0.8cm thick AL plate heatsink.

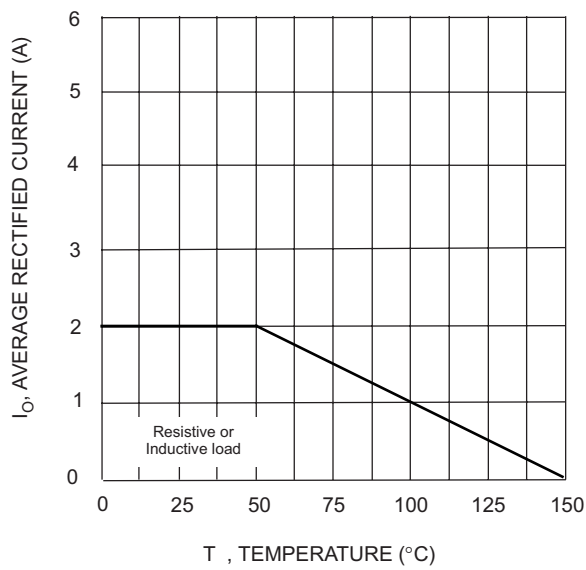


Fig. 1 Forward Current Derating Curve

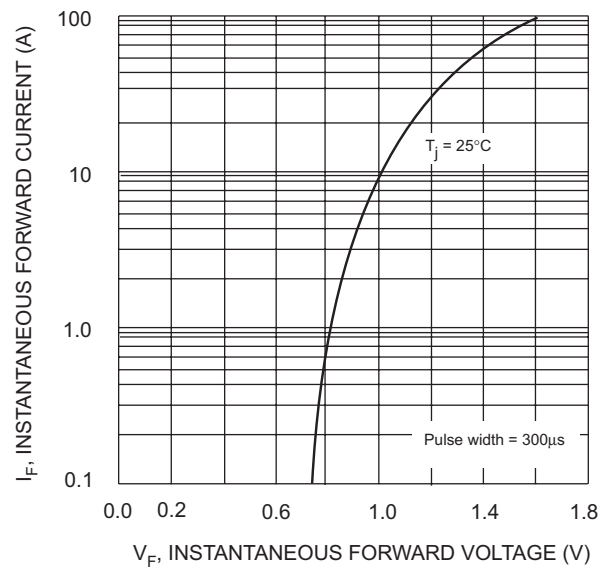


Fig. 2 Typical Fwd Characteristics, per element

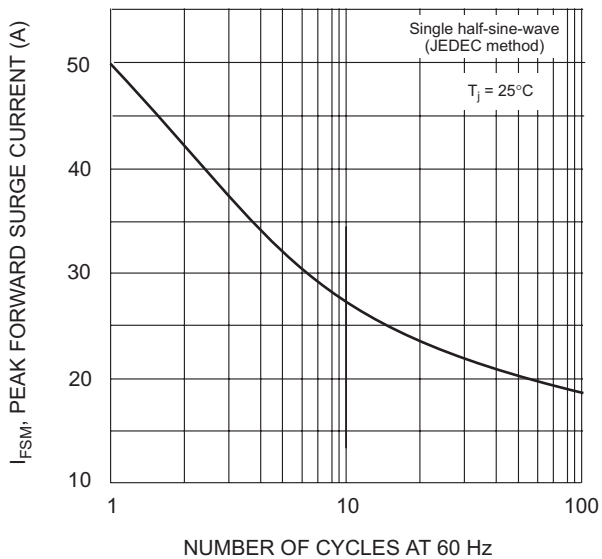


Fig. 3 Maximum Non-Repetitive Surge Current

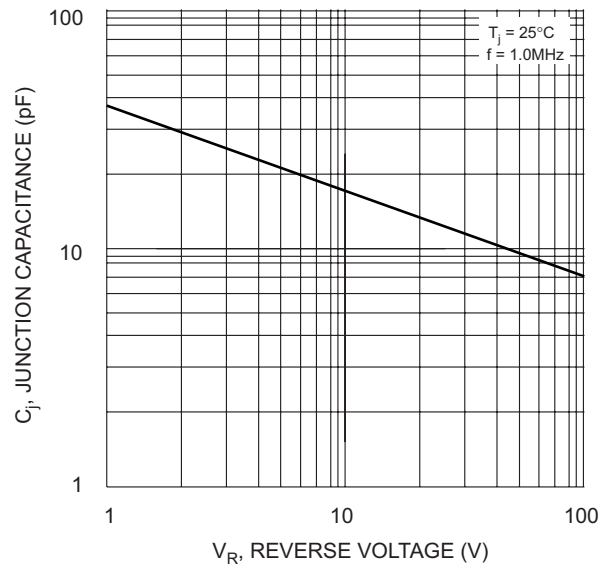


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBJ2A	SIL Bridge	50 Units/Tube
KBJ2B	SIL Bridge	50 Units/Tube
KBJ2D	SIL Bridge	50 Units/Tube
KBJ2G	SIL Bridge	50 Units/Tube
KBJ2J	SIL Bridge	50 Units/Tube
KBJ2K	SIL Bridge	50 Units/Tube
KBJ2M	SIL Bridge	50 Units/Tube

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

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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>

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