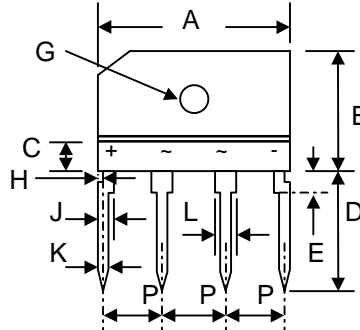


Features

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



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	3.4Ø
H	1.05	1.45
J	1.7	2.1
K	0.9	1.1
L	1.5	1.9
M	4.8	5.16
N	3.8	4.4
P	7.3	7.7
R	9.3	9.7
S	3.4	3.9
T	0.6	0.8
All Dimensions in mm		

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 4.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

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	KBJ4A	KBJ4B	KBJ4D	KBJ4G	KBJ4J	KBJ4K	KBJ4M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWV} 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 @ $T_C = 100^\circ\text{C}$ @ $T_A = 25^\circ\text{C}$	I_O	4.0 2.4							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							A
I^2t Rating for Fusing ($t < 8.35\text{ms}$)	I^2t	93							A^2s
Forward Voltage (per diode) @ $I_F = 2.0\text{A}$	V_{FM}	1.0							V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_C = 100^\circ\text{C}$	I_R	5.0 500							μA
Typical Thermal Resistance (per leg) (Note 1)	$R_{\theta JA}$	30							K/W
Typical Thermal Resistance (per leg) (Note 2)	$R_{\theta JC}$	5.5							K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150							$^\circ\text{C}$

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.

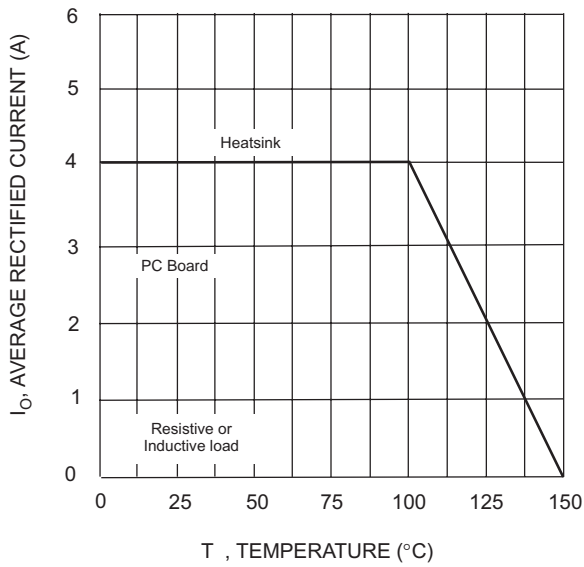


Fig. 1 Forward Current Derating Curve

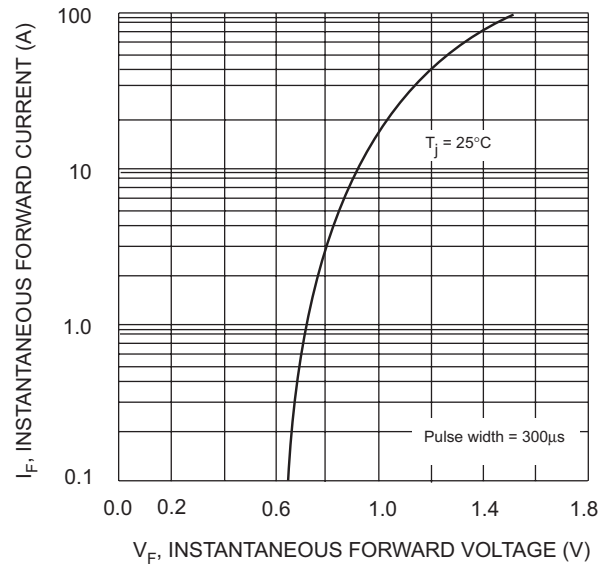


Fig. 2 Typical Fwd Characteristics, per element

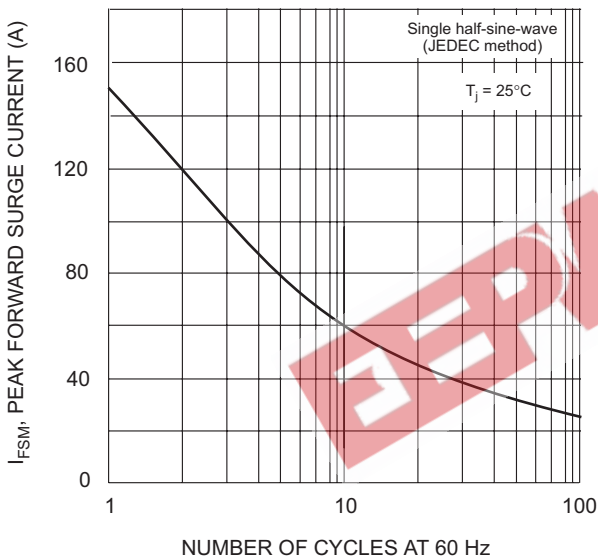


Fig. 3 Maximum Non-Repetitive Surge Current

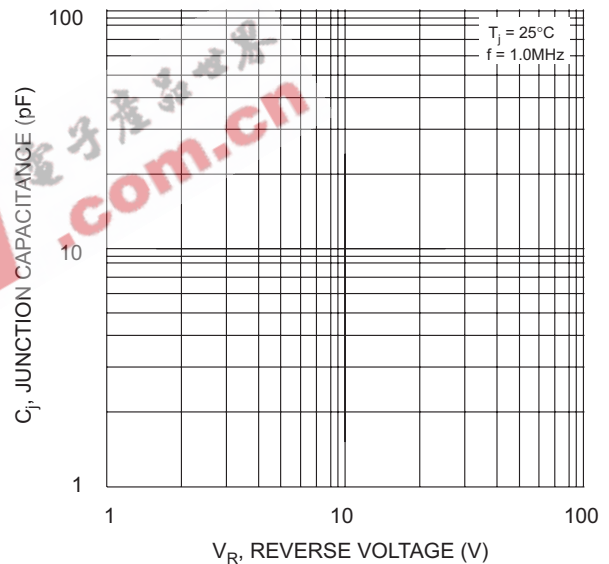


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBJ4A	SIL Bridge	25 Units/Tube
KBJ4B	SIL Bridge	25 Units/Tube
KBJ4D	SIL Bridge	25 Units/Tube
KBJ4G	SIL Bridge	25 Units/Tube
KBJ4J	SIL Bridge	25 Units/Tube
KBJ4K	SIL Bridge	25 Units/Tube
KBJ4M	SIL Bridge	25 Units/Tube

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

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