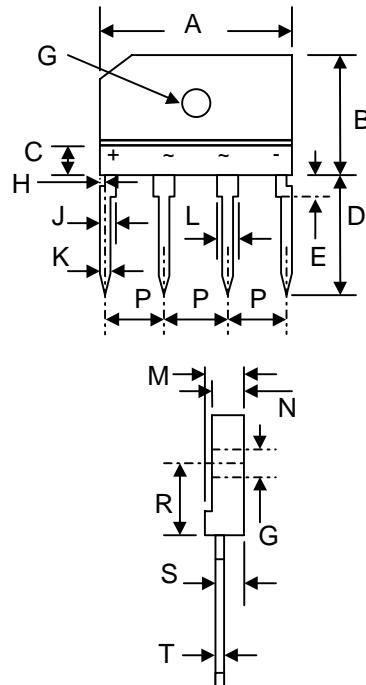


**Features**

- 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: 4.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



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

**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	KBJ10A	KBJ10B	KBJ10D	KBJ10G	KBJ10J	KBJ10K	KBJ10M	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 @ $T_C = 100^\circ\text{C}$ @ $T_A = 25^\circ\text{C}$	$I_o$				10	3.0			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$				170				A
$I^2t$ Rating for Fusing ( $t < 8.35\text{ms}$ )	$I^2t$				120				$\text{A}^2\text{s}$
Forward Voltage (per diode) @ $I_F = 5.0\text{A}$	$V_{FM}$				1.05				V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_C = 100^\circ\text{C}$	$I_R$				5.0	500			$\mu\text{A}$
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$				2.5				$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_j, T_{STG}$				-55 to +150				$^\circ\text{C}$

Note: 1. Thermal resistance junction to case, mounted on 150 x 150 x 1.6mm thick Cu plate heatsink.

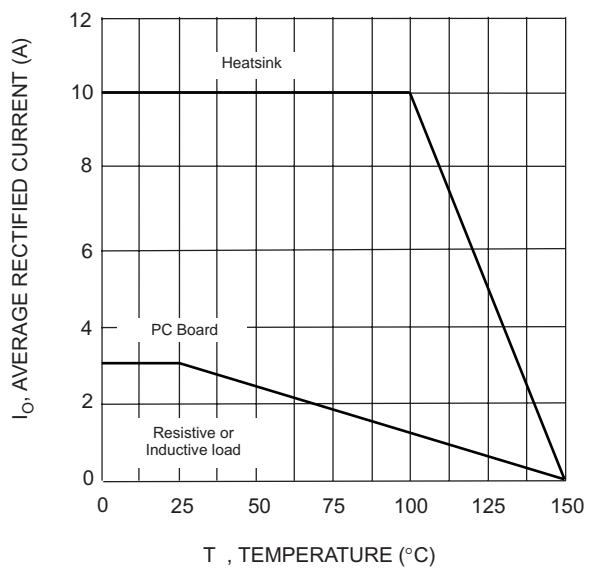


Fig. 1 Forward Current Derating Curve

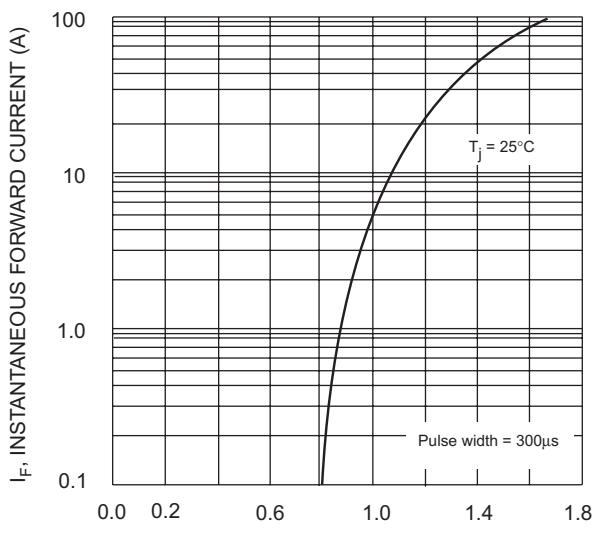


Fig. 2 Typical Fwd Characteristics, per element

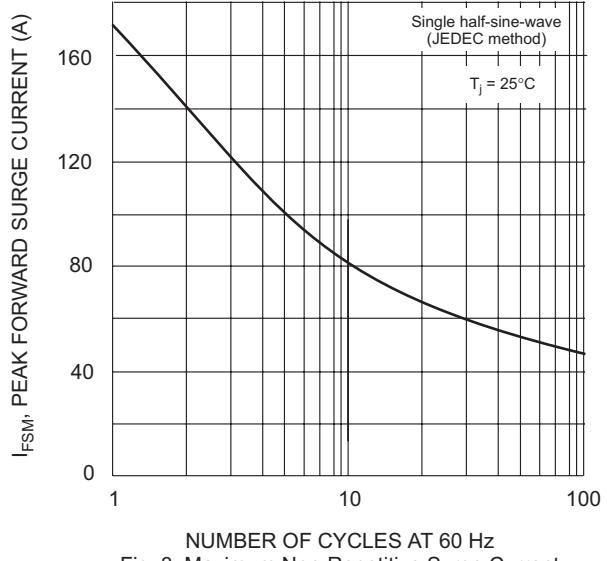


Fig. 3 Maximum Non-Repetitive Surge Current

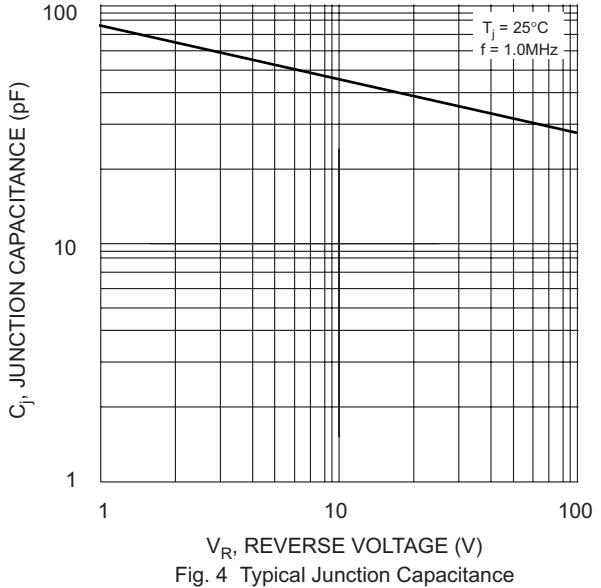


Fig. 4 Typical Junction Capacitance

## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBJ10A	SIL Bridge	25 Units/Tube
KBJ10B	SIL Bridge	25 Units/Tube
KBJ10D	SIL Bridge	25 Units/Tube
KBJ10G	SIL Bridge	25 Units/Tube
KBJ10J	SIL Bridge	25 Units/Tube
KBJ10K	SIL Bridge	25 Units/Tube
KBJ10M	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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