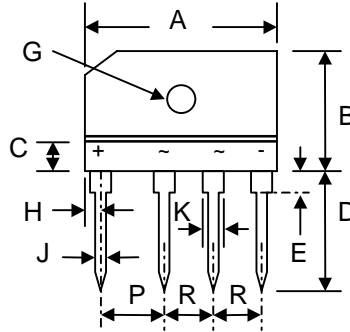


### Features

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



KBJ-6		
Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	4.7	4.9
D	17.0	18.0
E	3.8	4.2
G	3.1Ø	3.4Ø
H	2.3	2.7
J	0.9	1.1
K	2.0	2.4
L	0.6	0.7
M	4.4	4.8
N	3.4	—
P	9.8	10.2
R	7.3	7.7
S	10.8	11.2
T	2.6	—
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<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	KBJ6A	KBJ6B	KBJ6D	KBJ6G	KBJ6J	KBJ6K	KBJ6M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>C</sub> = 100°C @T <sub>A</sub> = 25°C	I <sub>O</sub>	6.0 2.8							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	170							A
I <sup>2</sup> t Rating for Fusing (t < 8.35ms)	I <sup>2</sup> t	100							A <sup>2</sup> s
Forward Voltage (per diode) @I <sub>F</sub> = 3.0A	V <sub>FM</sub>	1.05							V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>C</sub> = 100°C	I <sub>R</sub>	5.0 500							µA
Typical Thermal Resistance (per leg) (Note 1)	R <sub>θJA</sub>	26							K/W
Typical Thermal Resistance (per leg) (Note 2)	R <sub>θJC</sub>	3.4							K/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-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 7.5 x 7.5 x 0.8cm thick AL plate heatsink.

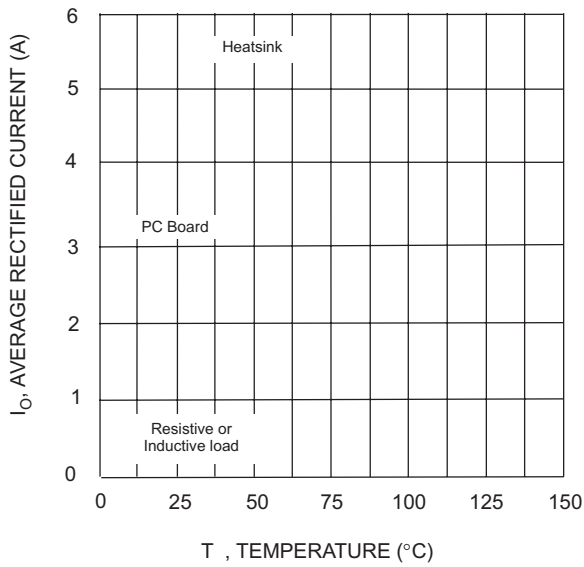


Fig. 1 Forward Current Derating Curve

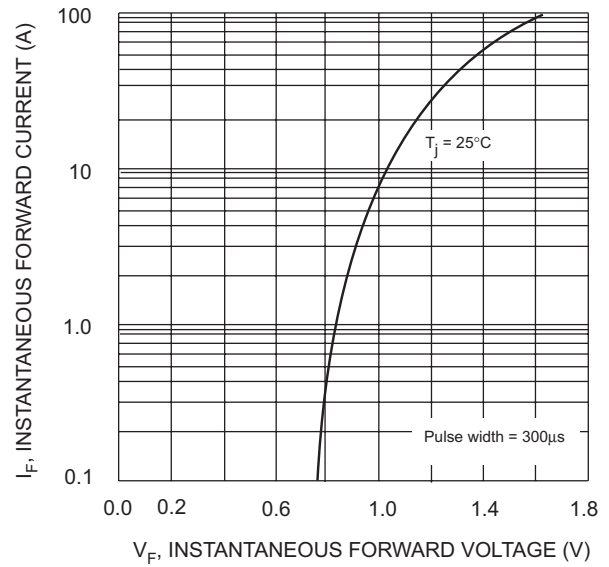


Fig. 2 Typical Fwd Characteristics, per element

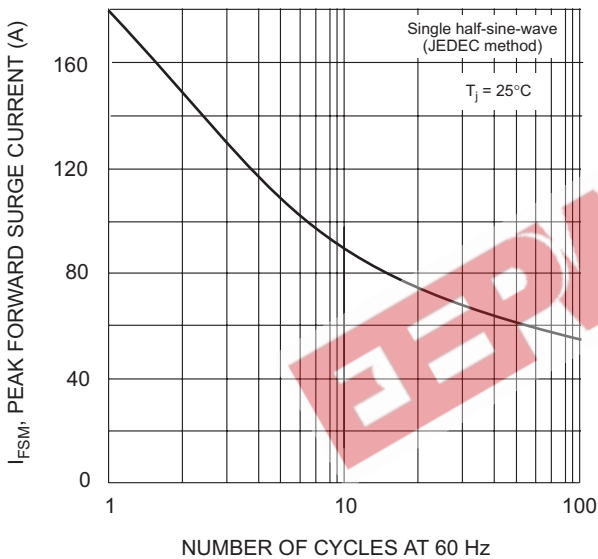


Fig. 3 Maximum Non-Repetitive Surge Current

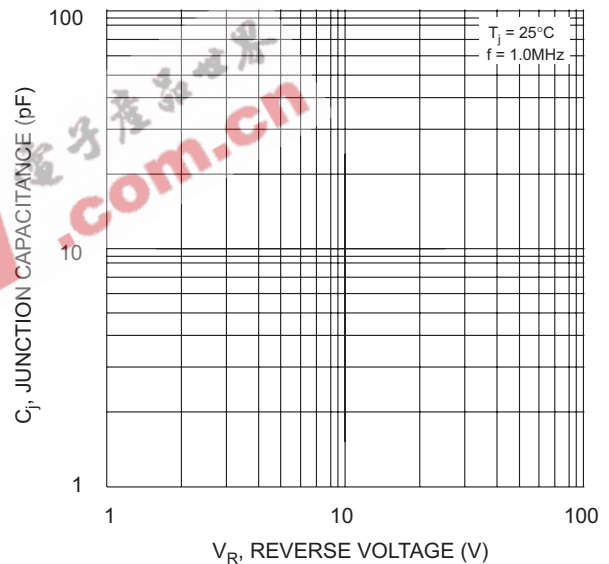


Fig. 4 Typical Junction Capacitance

## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBJ6A	SIL Bridge	20 Units/Tube
KBJ6B	SIL Bridge	20 Units/Tube
KBJ6D	SIL Bridge	20 Units/Tube
KBJ6G	SIL Bridge	20 Units/Tube
KBJ6J	SIL Bridge	20 Units/Tube
KBJ6K	SIL Bridge	20 Units/Tube
KBJ6M	SIL Bridge	20 Units/Tube

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

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