

KBJ6A - KBJ6M

6.0A 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

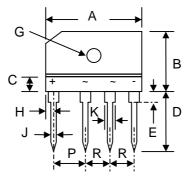
Case: Molded Plastic

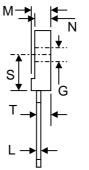
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

Weight: 4.0 grams (approx.)

Mounting Position: AnyMarking: Type Number





KBJ-6						
Dim	Min	Max				
Α	29.7	30.3				
В	19.7	20.3				
С	4.7	4.9				
D	17.0	18.0				
Е	3.8	4.2				
G	3.1Ø	3.4Ø				
Н	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	1				
Р	9.8	10.2				
R	7.3	7.7				
S	10.8	11.2				
T	2.6	_				
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics @TA=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	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current $@T_C = 100^{\circ}C$ $@T_A = 25^{\circ}C$	lo	6.0 2.8						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	170					А		
I ² t Rating for Fusing (t < 8.35ms)	l²t				100				A ² s
Forward Voltage (per diode) @I _F = 3.0A	VFM				1.05				V
Peak Reverse Current $@T_A = 25$ °C At Rated DC Blocking Voltage $@T_C = 100$ °C	IR	5.0 500					μΑ		
Typical Thermal Resistance (per leg) (Note 1)	R_{θ} JA	26					K/W		
Typical Thermal Resistance (per leg) (Note 2)	R_{θ} JC	3.4					K/W		
Operating and Storage Temperature Range	Тj, Tsтg	-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.

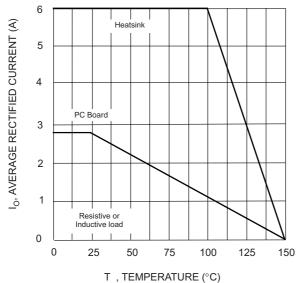


Fig. 1 Forward Current Derating Curve

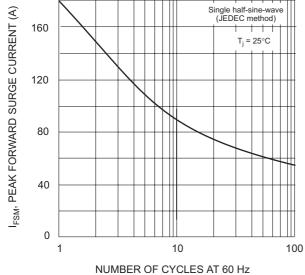


Fig. 3 Maximum Non-Repetitive Surge Current

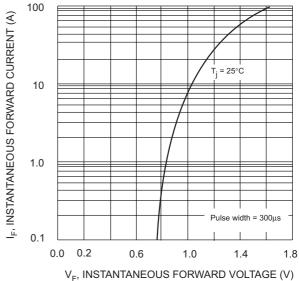
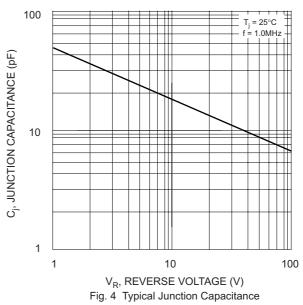


Fig. 2 Typical Fwd Characteristics, per element



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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