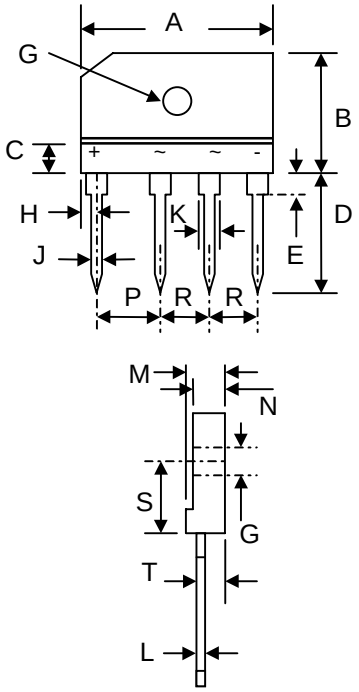
KBJ8A – KBJ8M

8.0A BRIDGE RECTIFIER

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_A=25°C unless otherwise specified

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

Characteristic	Symbol	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M	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_C = 75°C (Note 1)	I_O	8.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200							A
Forward Voltage (per element) @I_F = 8.0A	V_{FM}	1.1							V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_C = 100°C	I_R	10 200							μA
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150							°C

Note: 1. Device mounted on 7.5 x 7.5 x 0.8cm thick AL plate heatsink.

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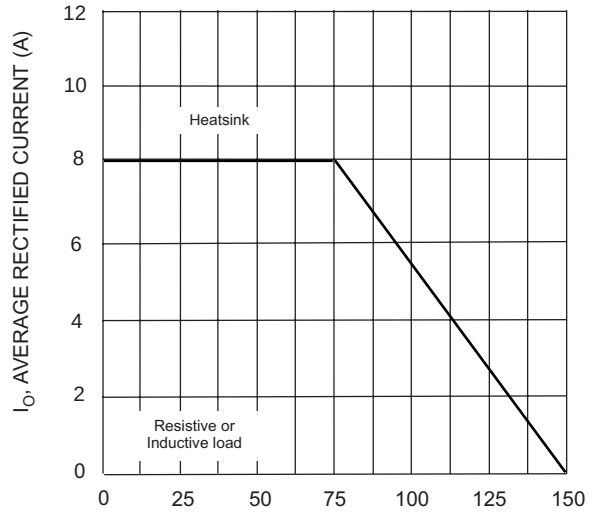


Fig. 1 Forward Current Derating Curve

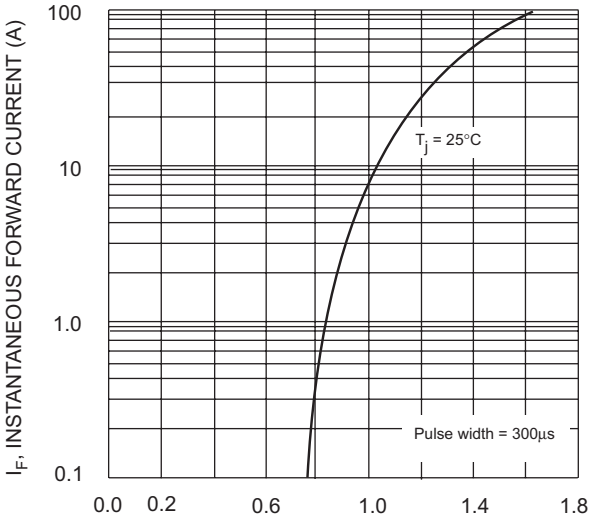


Fig. 2 Typical Fwd Characteristics, per element

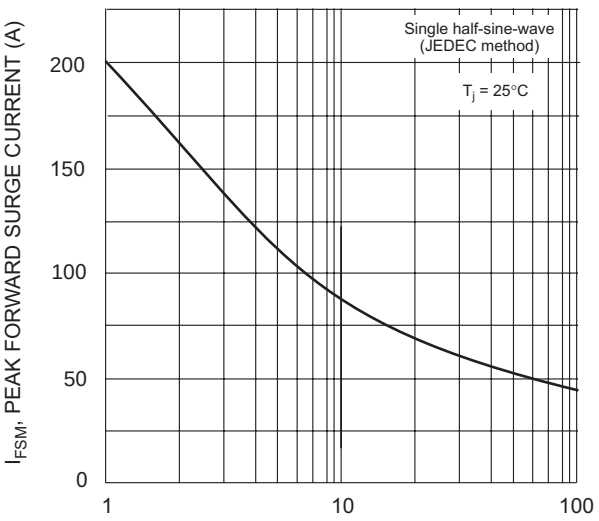


Fig. 3 Maximum Non-Repetitive Surge Current

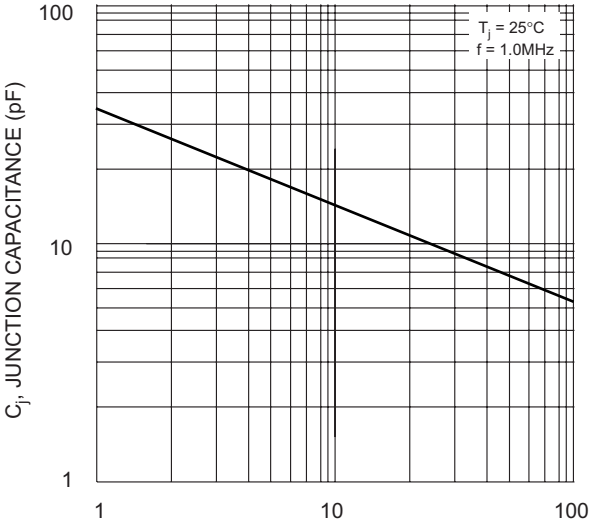


Fig. 4 Typical Junction Capacitance

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBJ8A	SIL Bridge	20 Units/Tube
KBJ8B	SIL Bridge	20 Units/Tube
KBJ8D	SIL Bridge	20 Units/Tube
KBJ8G	SIL Bridge	20 Units/Tube
KBJ8J	SIL Bridge	20 Units/Tube
KBJ8K	SIL Bridge	20 Units/Tube
KBJ8M	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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