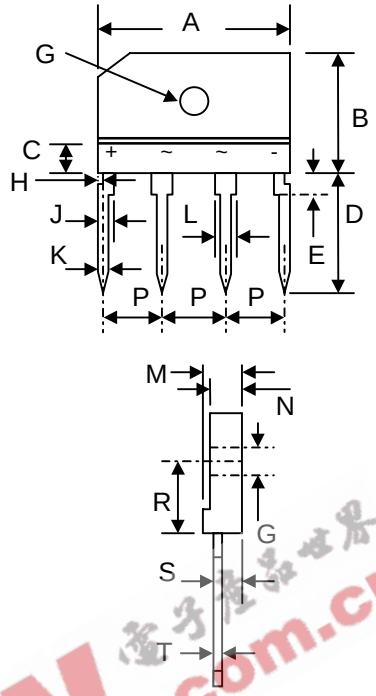
KBJ10A – KBJ10M

10A BRIDGE RECTIFIER

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°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 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 = 100°C @T_A = 25°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 < 8.35ms)	I^2t	120							A^2s
Forward Voltage (per diode) @I_F = 5.0A	V_{FM}	1.05							V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_C = 100°C	I_R	5.0 500							μA
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	2.5							°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150							°C

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

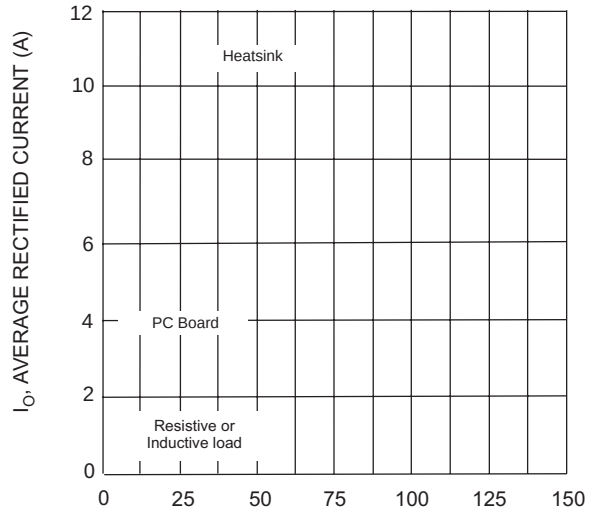


Fig. 1 Forward Current Derating Curve

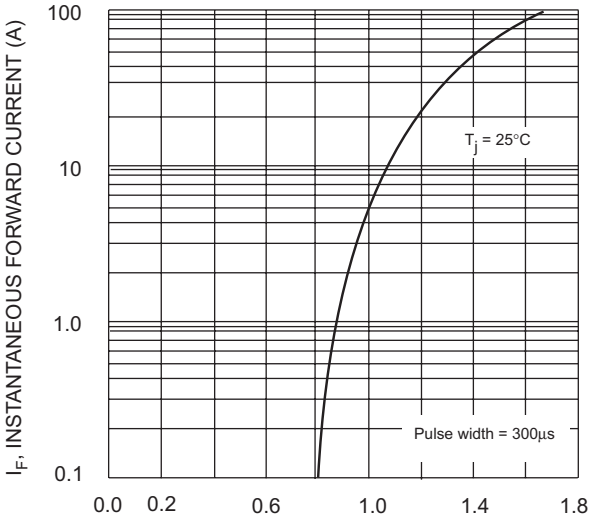


Fig. 2 Typical Fwd Characteristics, per element

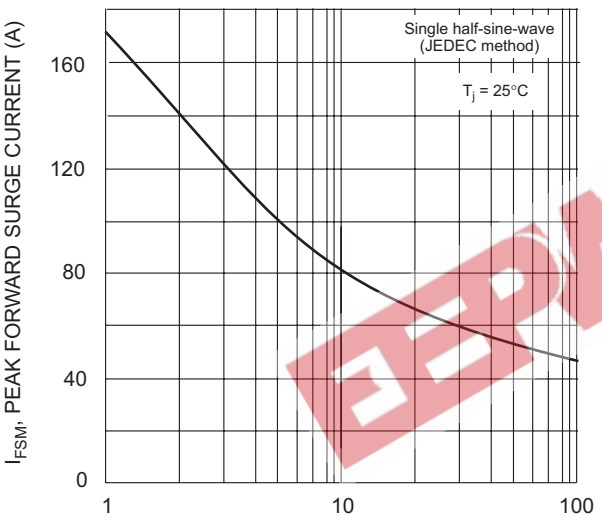


Fig. 3 Maximum Non-Repetitive Surge Current

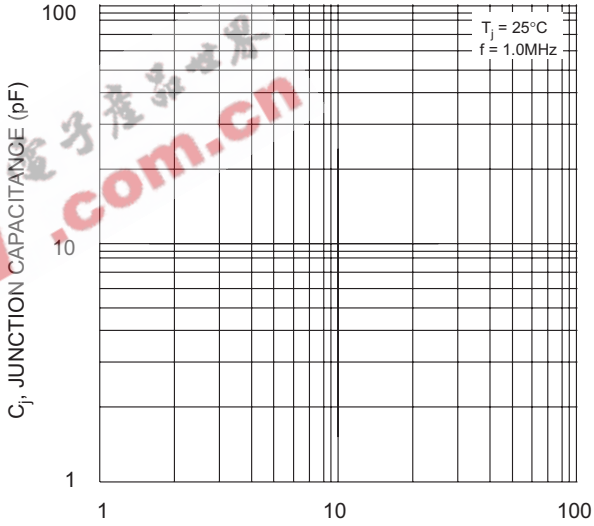


Fig. 4 Typical Junction Capacitance

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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