

KBJ15A – KBJ15M

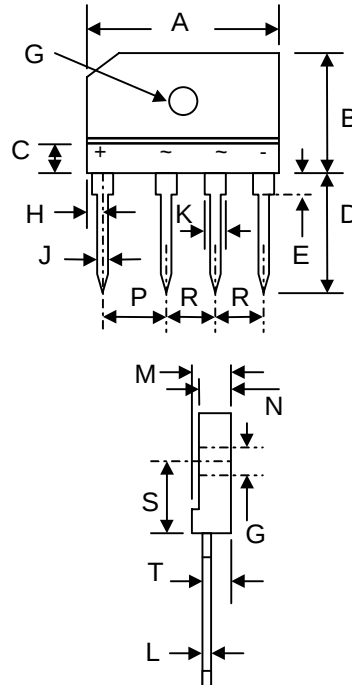
15A BRIDGE RECTIFIER

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: Any
- Marking: Type Number



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		

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	KBJ 15A	KBJ 15B	KBJ 15D	KBJ 15G	KBJ 15J	KBJ 15K	KBJ 15M	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	I _O	15							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200							A
I ² t Rating for Fusing (t < 8.35ms)	I ² t	110							A ² s
Forward Voltage (per diode) @I _F = 7.5A	V _{FM}	1.1							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 (per leg) (Note 1)	R _{θJA}	22							K/W
Typical Thermal Resistance (per leg) (Note 2)	R _{θJC}	1.5							K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-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.

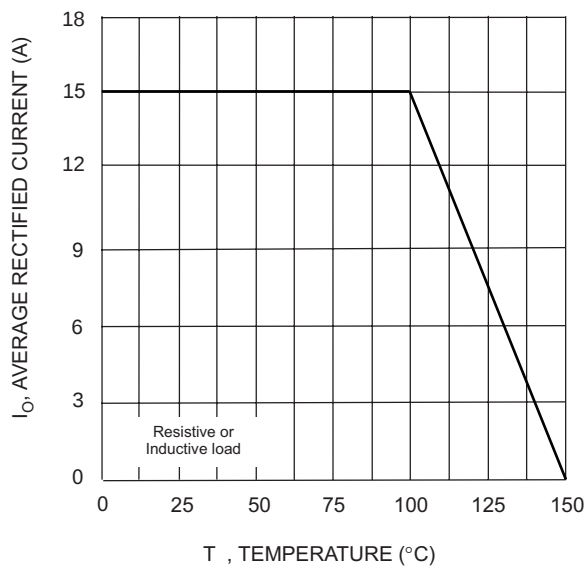


Fig. 1 Forward Current Derating Curve

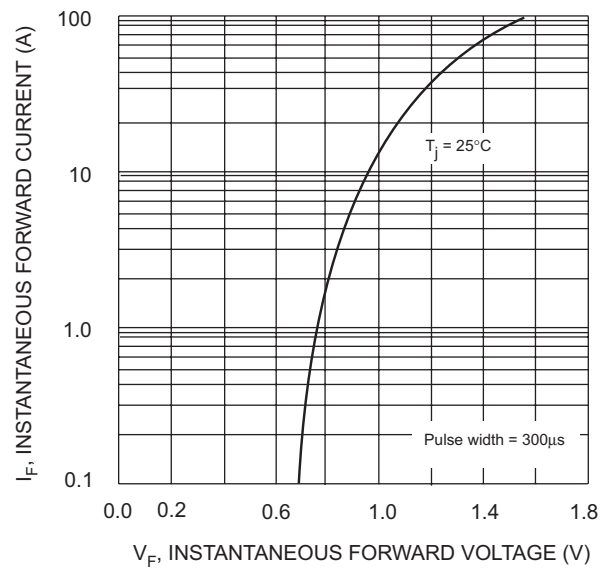


Fig. 2 Typical Fwd Characteristics, per element

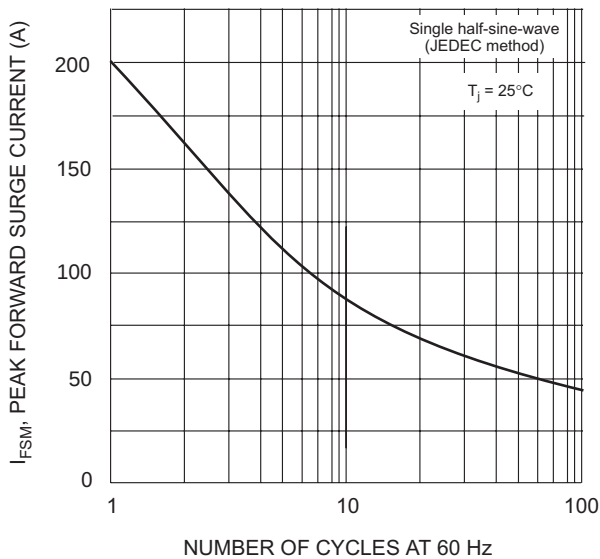


Fig. 3 Maximum Non-Repetitive Surge Current

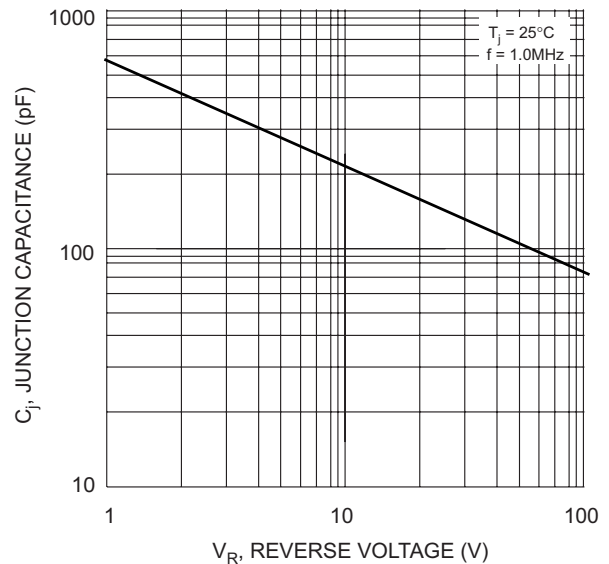


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBJ15A	SIL Bridge	20 Units/Tube
KBJ15B	SIL Bridge	20 Units/Tube
KBJ15D	SIL Bridge	20 Units/Tube
KBJ15G	SIL Bridge	20 Units/Tube
KBJ15J	SIL Bridge	20 Units/Tube
KBJ15K	SIL Bridge	20 Units/Tube
KBJ15M	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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