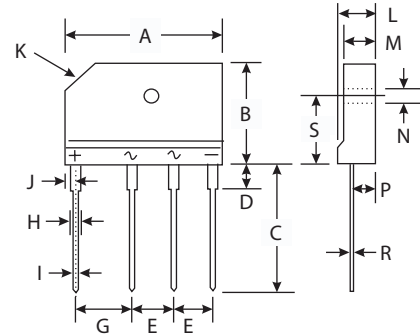


KBJ15A THRU KBJ15M

CURRENT 15.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 240A Peak
- Ideal for Printed Circuit Board Applications
- Plastic Material - UL Flammability Classification 94V-0



Mechanical Data

- Case : Molded Plastic
- Terminals : Plated Leads, Solderable per MIL-STD-202, Method 208
- Polarity : Molded on Body
- Mounting : Through Hole for #6 Screw
- Mounting Torque : 5.0 in-lbs Maximum
- Weight : 6.6 grams (approx.)
- Marking : Type Number

KBJ					
Dim	Min	Max	Dim	Min	Max
A	29.70	30.30	J	2.30	2.70
B	19.70	20.30	K	3.0 X 45°	
C	17.00	18.00	L	4.40	4.80
D	3.80	4.20	M	3.40	3.80
E	7.30	7.70	N	3.10	3.40
G	9.80	10.20	P	2.50	2.90
H	2.00	2.40	R	0.60	0.80
I	0.90	1.10	S	10.80	11.20
All Dimensions in mm					

Maximum Ratings And Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	KBJ 15A	KBJ 15B	KBJ 15D	KBJ 15G	KBJ 15J	KBJ 15K	KBJ 15M	Units
Peak Repetitive Reverse voltage Working Peak Reverse voltage DC Blocking voltage	V _{RMM} V _{RRM} V _R	50	100	200	400	600	800	1000	Volts
RMS Reverse voltage	V _{R(RMS)}	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ T _C =100°C	I _o	15							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	240							Amps
Forward Voltage per element @ I _F =7.5A DC	V _{FM}	1.05							Volts
Peak Reverse Current at Rated DC Blocking voltage	@ T _C =25°C	10							μ A
	@ T _C =125°C	500							
I ² t Rating for Fusing (t<8.3ms) (Note 1)	I ² t	240							A ² s
Typical Junction Capacitance per element (Note 2)	C _j	60							pF
Typical Thermal Resistance, Junction to Case (Note 3)	R _{θ JA}	2.7							°C/W
Operating and Storage Temperature Range	T _j T _{STG}	-65 to +150							°C

Notes:

(1) Non-repetitive, for t > 1.0ms and < 8.3ms.

(2) Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

(3) Thermal Resistance from junction to case per element. Unit mounted on 300 x 300 x 1.6mm copper plate heat sink.



RATINGS AND CHARACTERISTIC CURVES KBJ15A THRU KBJ15M

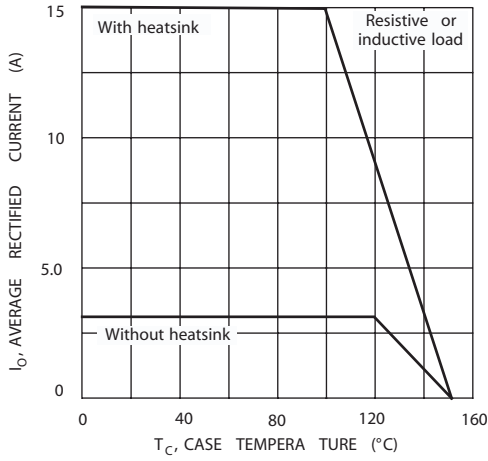


Fig. 1 Forward Current Derating Curve

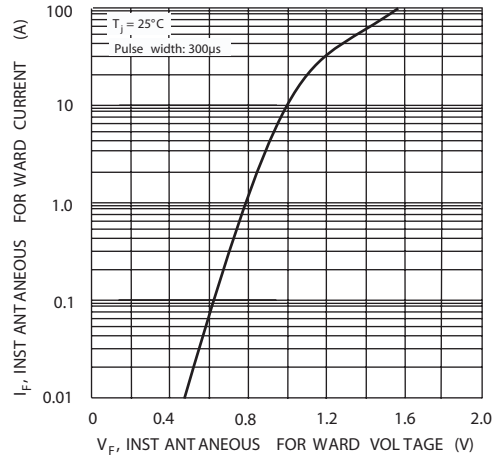


Fig. 2 Typical Forward Characteristics

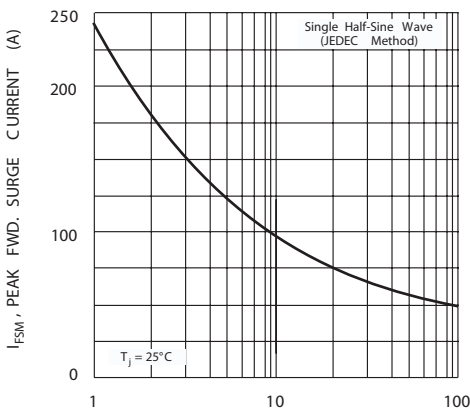


Fig. 3 Maximum Non-Repetitive Surge Current

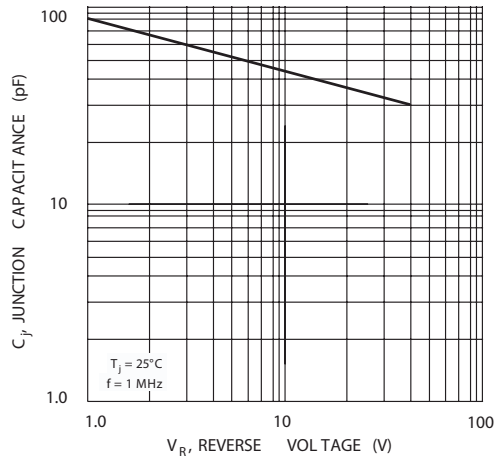


Fig. 4 Typical Junction Capacitance

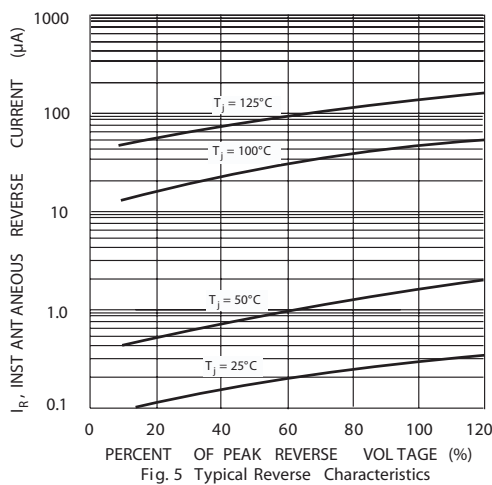


Fig. 5 Typical Reverse Characteristics