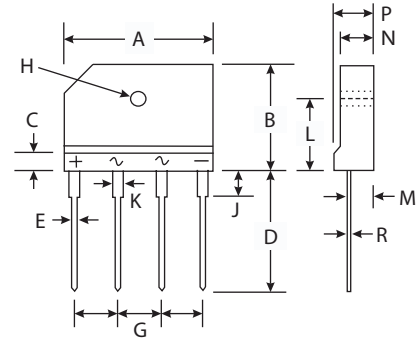


KBJ6A THRU KBJ6M

CURRENT 6.0 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 170A 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	24.80	25.20	J	3.30	3.70
B	14.70	15.30	K	1.50	1.90
C	4.00 Nominal		L	9.30	9.70
D	17.20	17.80	M	2.50	2.90
E	0.90	1.10	N	3.40	3.80
G	7.30	7.70	P	4.40	4.80
H	3.10 ϕ	3.40 ϕ	R	0.60	0.80
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 6A	KBJ 6B	KBJ 6D	KBJ 6G	KBJ 6J	KBJ 6K	KBJ 6M	Units
Peak Repetitive Reverse voltage	V _{RMM}	50	100	200	400	600	800	1000	Volts
Working Peak Reverse voltage	V _{VRM}								
DC Blocking voltage	V _R								
RMS Reverse voltage	V _{R(RMS)}	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ T _c =110 °C	I _o	6							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	170							Amps
Forward Voltage per element @ I _F =3.0 A	V _{FM}	1.0							Volts
Peak Reverse Current at Rated DC Blocking voltage	@ T _c =25 °C	5.0							μ A
	@ T _c =125 °C	500							
I ² t Rating for Fusing (t<8.3ms) (Note 1)	I ² t	120							A ² s
Typical Junction Capacitance per element (Note 2)	C _j	80							pF
Typical Thermal Resistance, Junction to Case (Note 3)	R θ _{JA}	6.0							°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 75 x 75 x 1.6mm copper plate heat sink.

RATINGS AND CHARACTERISTIC CURVES KBJ6A THRU KBJ6M

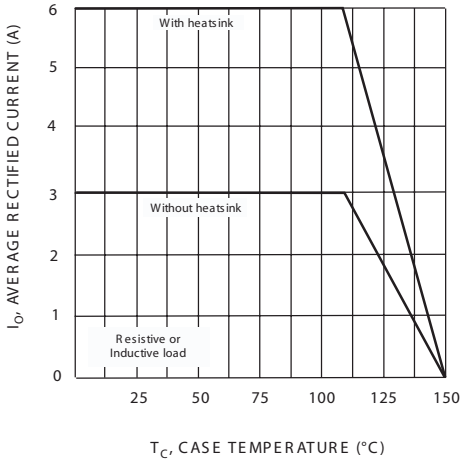


Fig. 1 Forward Current Derating Curve

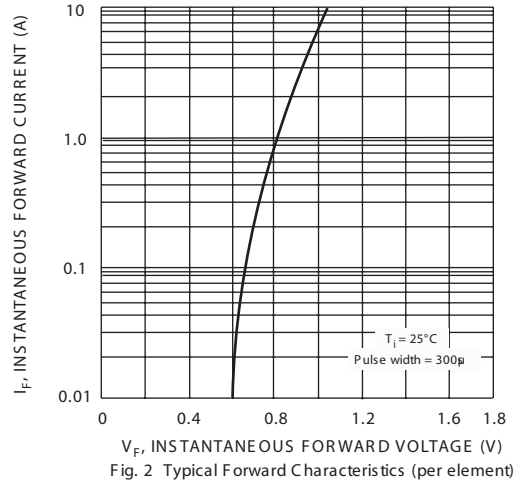


Fig. 2 Typical Forward Characteristics (per element)

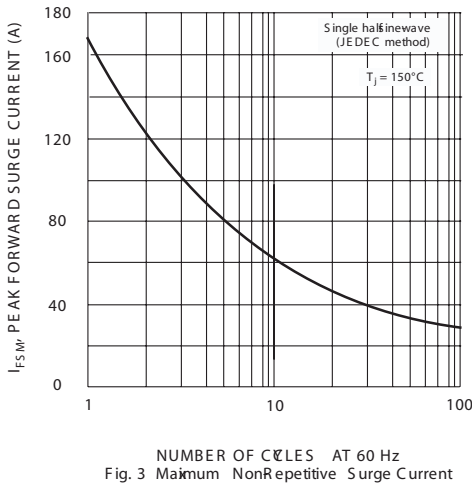


Fig. 3 Maximum NonRepetitive Surge Current

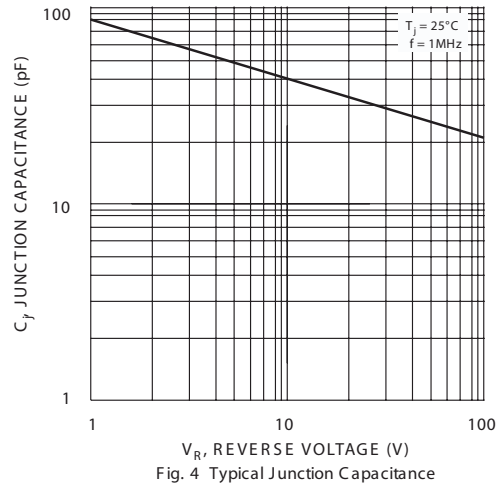


Fig. 4 Typical Junction Capacitance

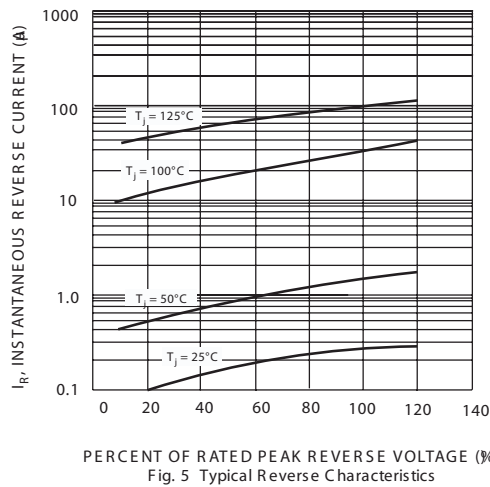


Fig. 5 Typical Reverse Characteristics