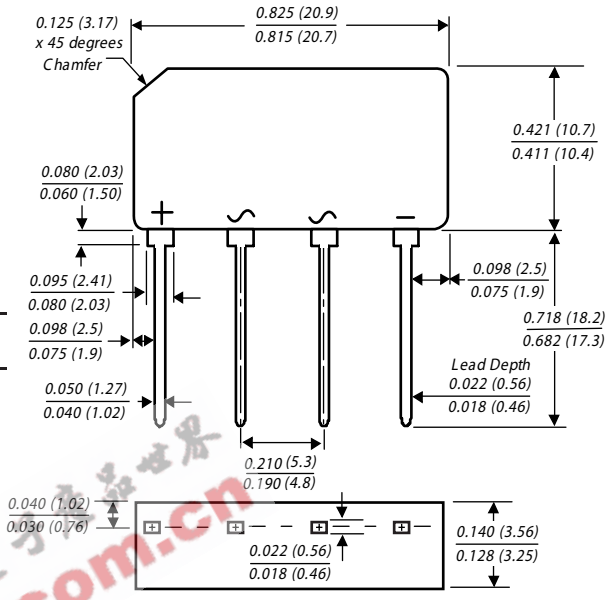
KBJ2A THRU KBJ2M

CURRENT 4.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength
- Low Reverse Leakage Current
- High surge current capability
- Ideal for Printed Circuit Board Applications
- Plastic Material - UL Flammability Classification 94V-0



Polarity shown on front side of case, positive lead beveled corner.
Dimensions in inches and (millimeters)

Mechanical Data

Case: Molded plastic body over passivated junctions
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
High temperature soldering guaranteed: 260℃/10 seconds , 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension
Mounting Position: Any
Weight: 0.071 oz., 2.0 g
Packaging codes/options:
1/400 EA. per Bulk Tray Stack

Maximum Ratings And Electrical Characteristics

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

	Symbols	KBJ 2A	KBJ 2B	KBJ 2C	KBJ 2G	KBJ 2J	KBJ 2K	KBJ 2M	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RMM} V_{RWM} V_R	50	100	200	400	600	800	1000	Volts
RMS Reverse voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	Volts
Maximum average forward @ T_C=50℃ Rectified output current at @ T_A=40℃	Io	4.0 3.0							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load per element (JEDEC method)	I_{FSM}	150							Amps
Forward Voltage (per element) @ I_F=4.0 A	V_{FM}	1.0							Volts
Peak Reverse Current at Rated DC Blocking Voltage @ T_C=25℃	I_{RM}	5.0							μA
Peak Reverse Current at Rated DC Blocking Voltage @ T_C=125℃	I_{RM}	500							μA
Typical Junction Capacitance (Note 1)	C_j	40							pF
Typical Thermal Resistance, Junction to Case (Note 2)	$R\theta_{JC}$	22							℃/W
Operating and Storage Temperature Range	T_j T_{STG}	-55 to +150							℃

Notes:
(1) Thermal resistance from junction to case per element. Unit mounted on 300 x 300 x 16mm aluminum plate heat sink.
(2) Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

DEC

RATING AND CHARACTERISTIC CURVES KBJ2A THRU KBJ2M

Fig. 1 -- Derating Curves Output Rectified Current

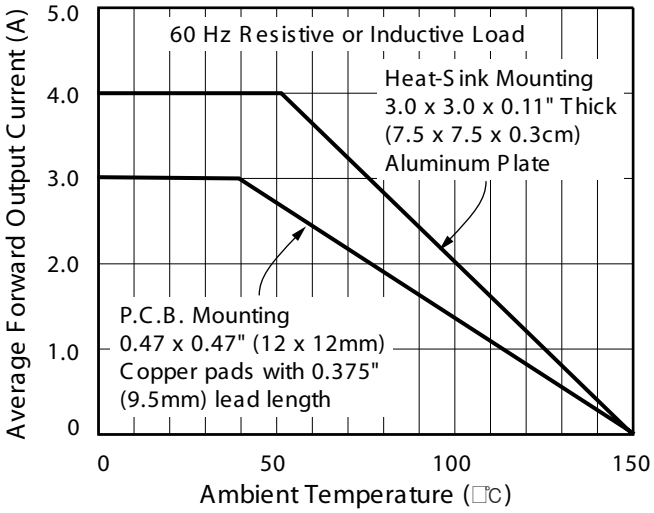


Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg

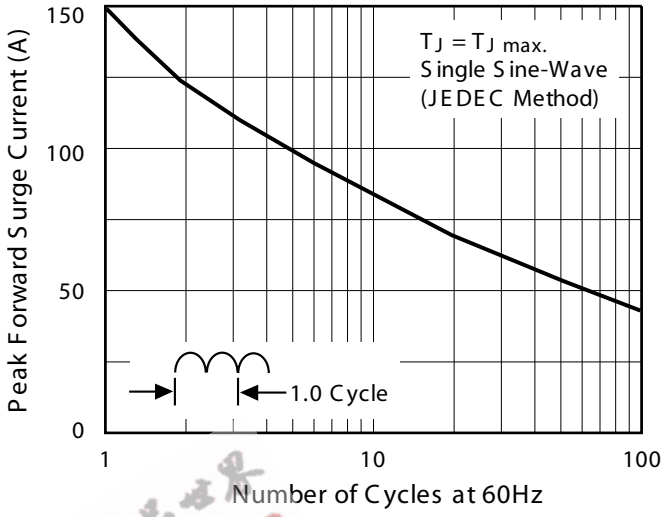


Fig. 3 -- Typical Forward Voltage Characteristics Per Leg

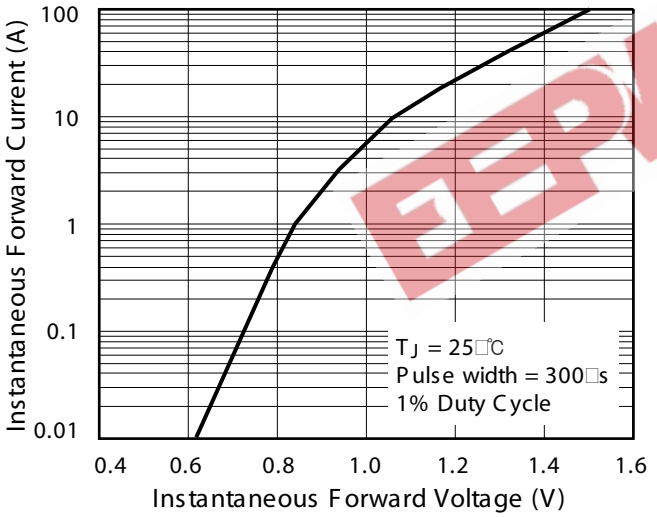


Fig. 4 -- Typical Reverse Leakage Characteristics Per Leg

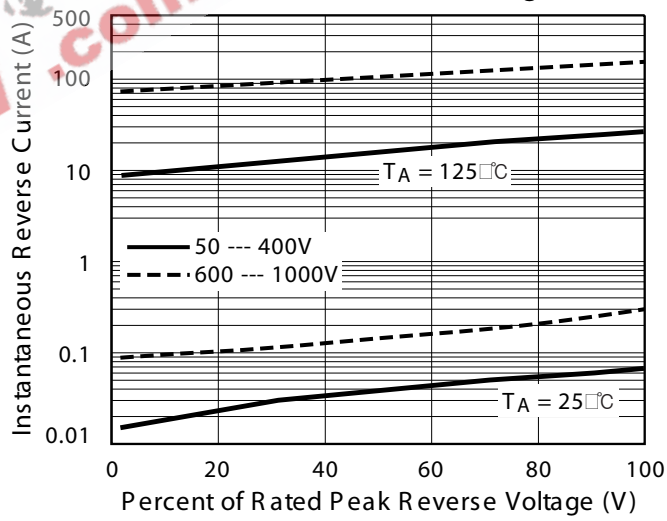


Fig. 5 -- Typical Junction Capacitance Per Leg

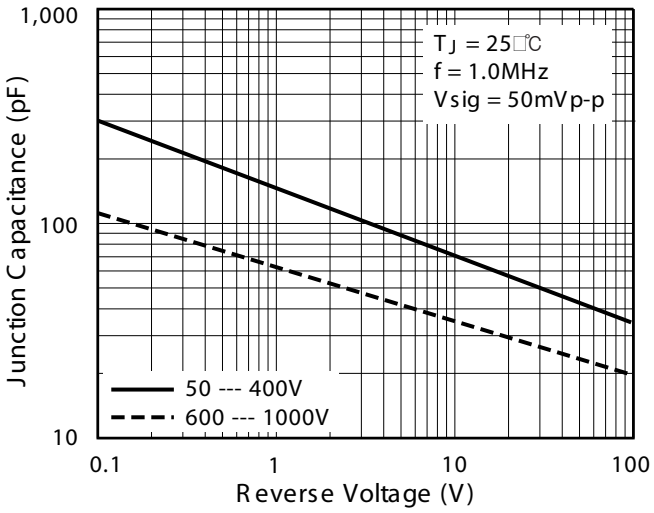


Fig. 6 -- Typical Transient Thermal Impedance Per Leg