

## KBJ2A THRU KBJ2M

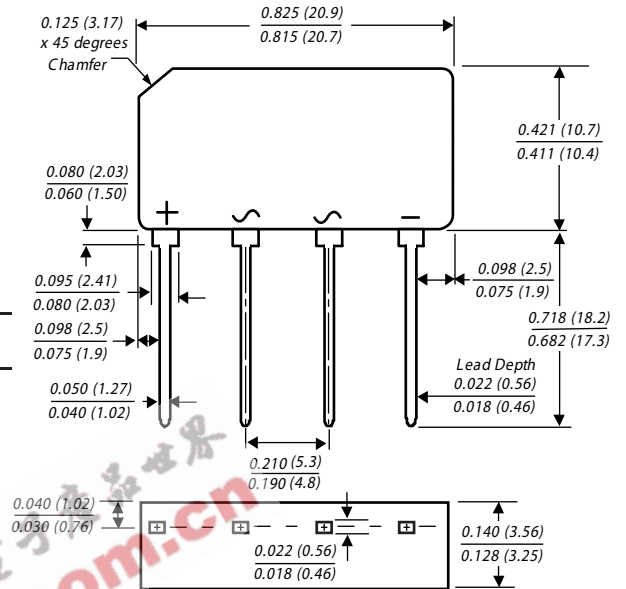
CURRENT 4.0 Amperes  
VOLTAGE 50 to 1000 Volts

### 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

### Mechanical Data

Case: Molded plastic body over passivated junctions  
 Terminals: Plated leads solderable per MIL-S TD-750, Method 2026  
 High temperature soldering guaranteed:  
 260 °C/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 E.A. per Bulk Tray S stack



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

### 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 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 <sub>RMM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	Volts
RMS Reverse voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	Volts
Maximum average forward Rectified output current at	I <sub>o</sub>					4.0			Amps
@ T <sub>C</sub> =50 °C @ T <sub>A</sub> =40 °C						3.0			
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load per element (JEDEC method)	I <sub>FSM</sub>					150			Amps
Forward Voltage (per element) @ I <sub>F</sub> =4.0 A	V <sub>FM</sub>					1.0			Volts
Peak Reverse Current at Rated DC Blocking Voltage	@ T <sub>C</sub> =25 °C					5.0			μ A
	@ T <sub>C</sub> =125 °C					500			
Typical Junction Capacitance (Note 1)	C <sub>j</sub>					40			pF
Typical Thermal Resistance, Junction to Case (Note 2)	R <sub>θ JC</sub>					22			°C/W
Operating and Storage Temperature Range	T <sub>J</sub> T <sub>STG</sub>					-55 to +150			°C

#### 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.

## RATING AND CHARACTERISTIC CURVES KBJ2A THRU KBJ2M

Fig. 1 -- Derating Curves Output Rectified Current

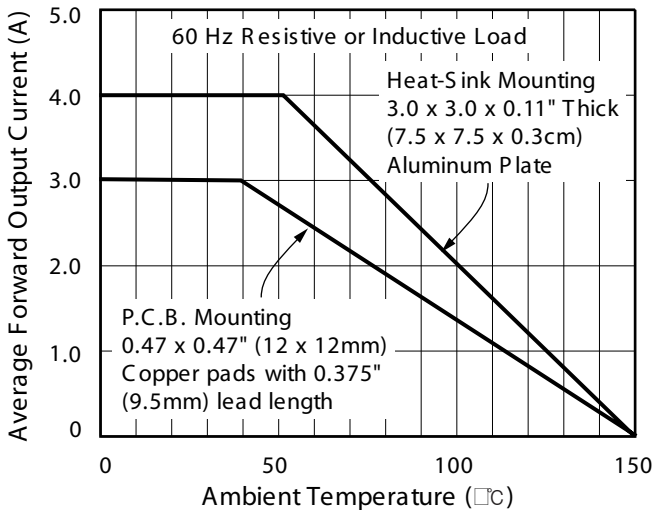


Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg

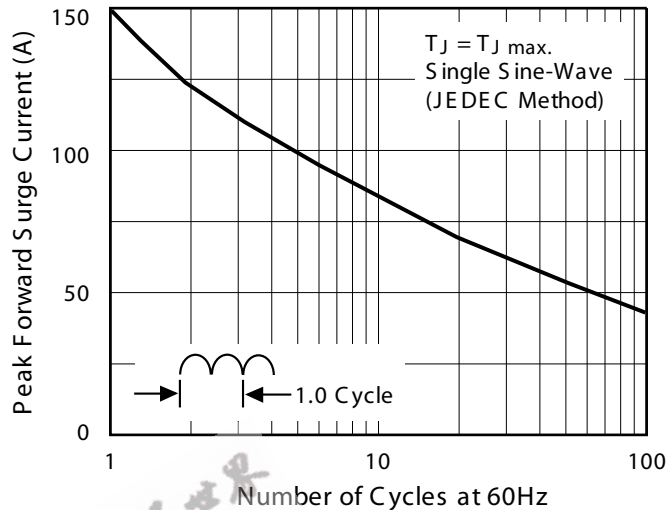


Fig. 3 -- Typical Forward Voltage Characteristics Per Leg

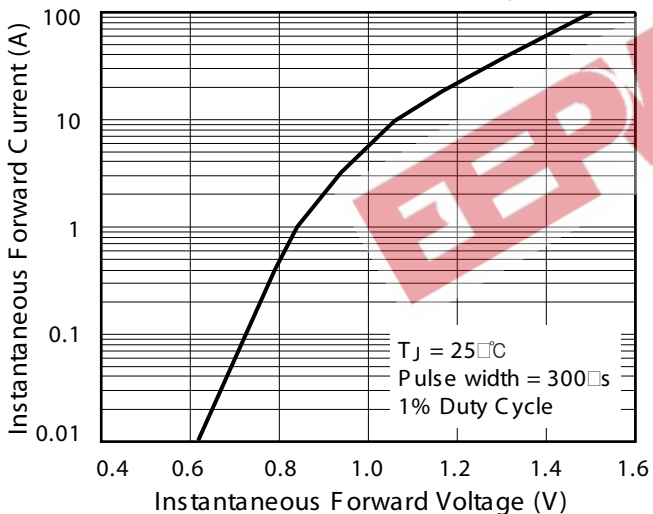


Fig. 4 -- Typical Reverse Leakage Characteristics Per Leg

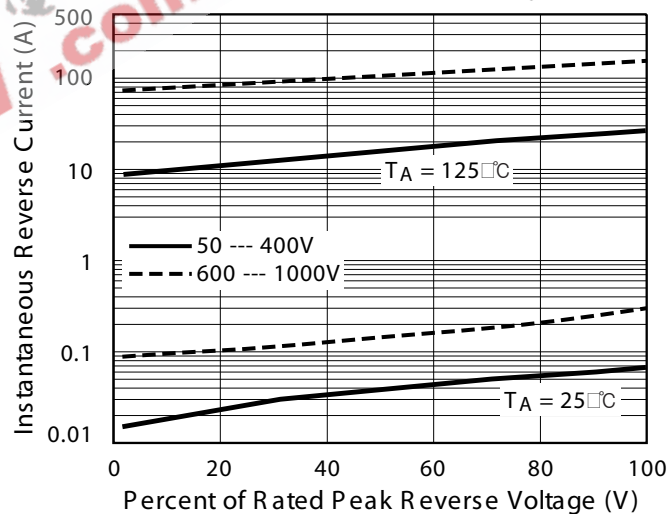


Fig. 5 -- Typical Junction Capacitance Per Leg

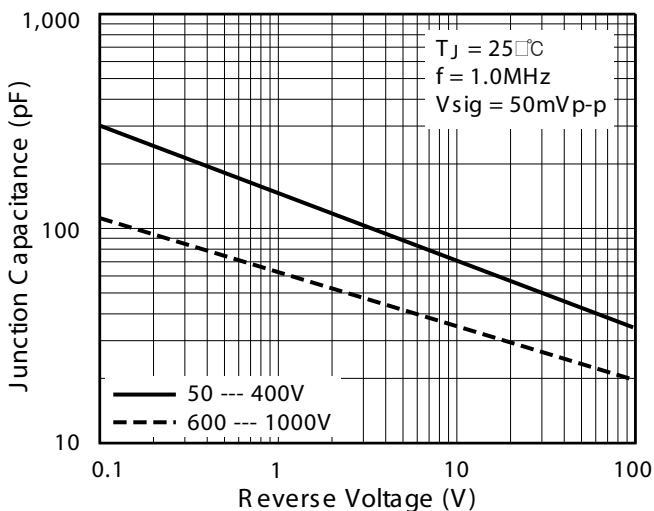


Fig. 6 -- Typical Transient Thermal Impedance Per Leg

