

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-STD-750,
Method 2026

High temperature soldering guaranteed:

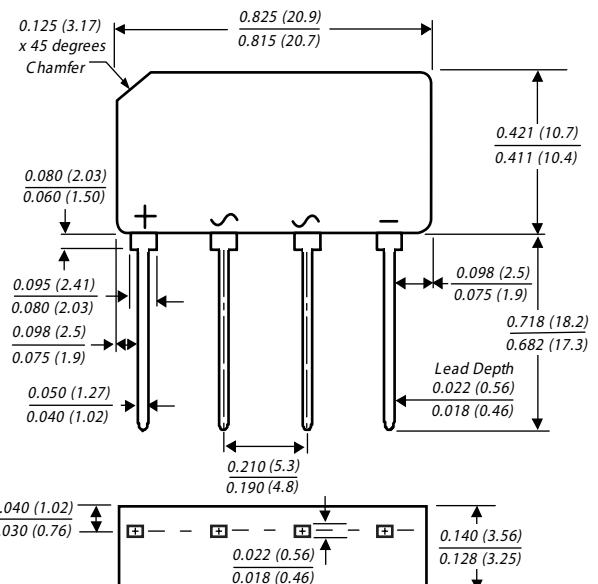
260 °C/10 seconds , 0.375" (9.5mm) lead length,
5lbs. (2.3kg) tension

Mounting Position: Any

Weight: 0.071 oz., 2.0 g

Packaging codes/options:

1/400 EA per Bulk Tray Stack



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	VRMM								
Working Peak Reverse Voltage	VRWM	50	100	200	400	600	800	1000	Volts
DC Blocking Voltage	VR								
RMS Reverse voltage	VR(RMS)	35	70	140	280	420	560	700	Volts
Maximum average forward @ T _c =50 °C	I _o				4.0				Amps
Rectified output current at @ T _A =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 _{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	I _{RM}				5.0				µ A
@ T _c =25 °C					500				
Typical Junction Capacitance (Note 1)	C _j				40				pF
Typical Thermal Resistance, Junction to Case (Note 2)	R _θ JC				22				°C/W
Operating and Storage Temperature Range	T _j T _{STG}				-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.

DEC

RATING AND CHARACTERISTIC CURVES KBJ2A THRU KBJ2M

Fig. 1 -- Derating Curves Output Rectified Current

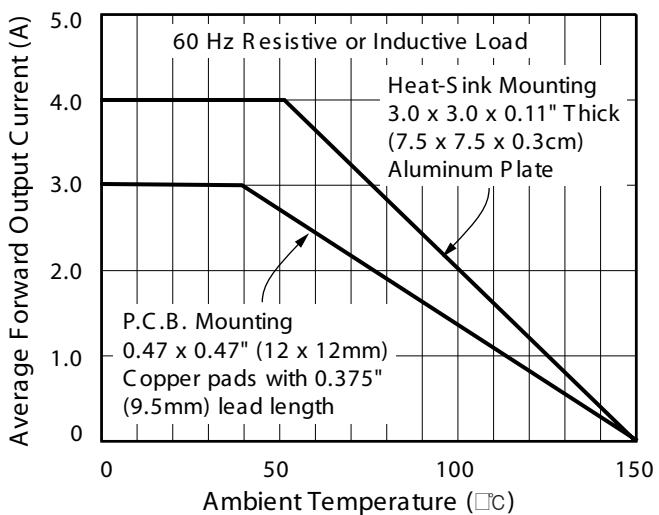


Fig. 3 -- Typical Forward Voltage Characteristics Per Leg

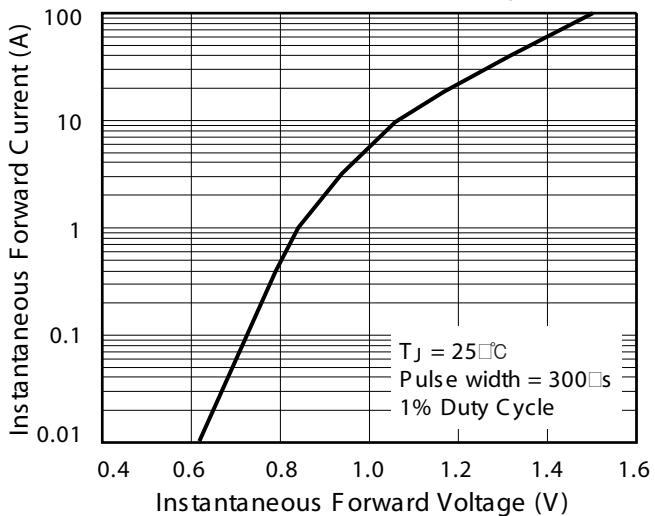


Fig. 5 -- Typical Junction Capacitance Per Leg

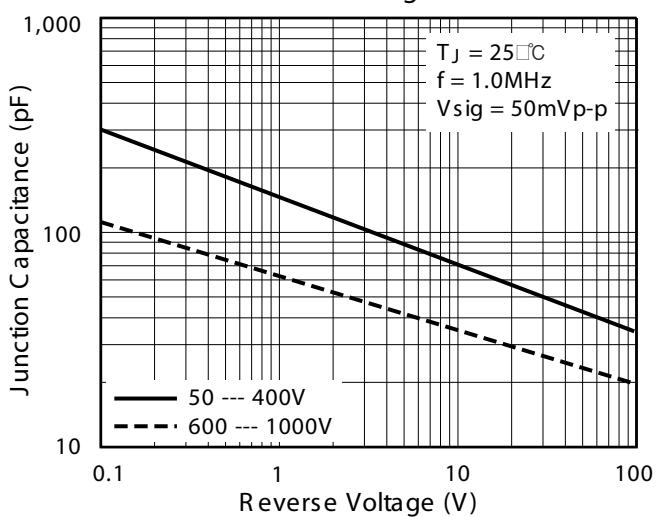


Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg

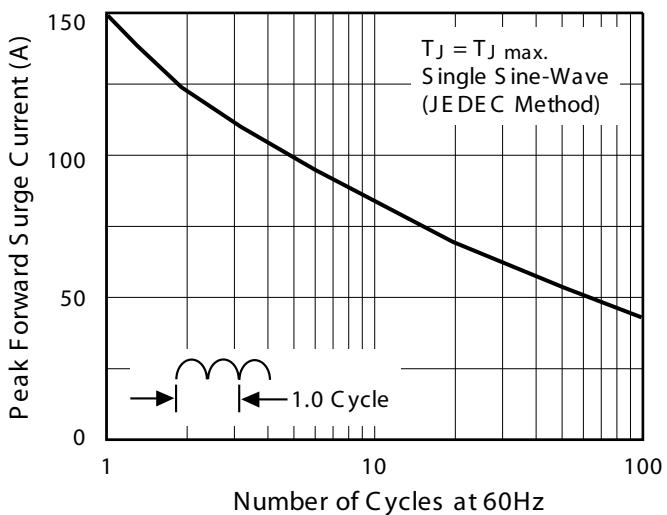


Fig. 4 -- Typical Reverse Leakage Characteristics Per Leg

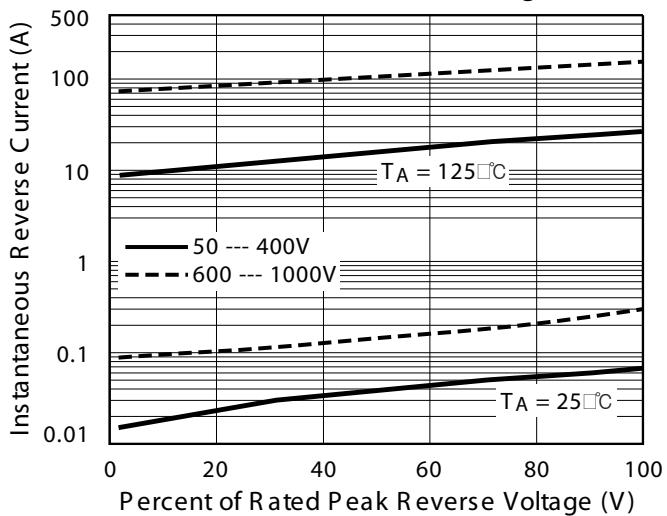


Fig. 6 -- Typical Transient Thermal Impedance Per Leg

