

# **KBJ10005 THRU KBJ1010**

# GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

### **FEATURES**

- · Glass passivated chip junction
- · Ideal for printed circuit board
- Plastic material has Underwriters Laboratory
   Flammability Classification 94V-0
- · Reliable low cost construction utilizing molded plastic technique

#### **MECHANICAL DATA**

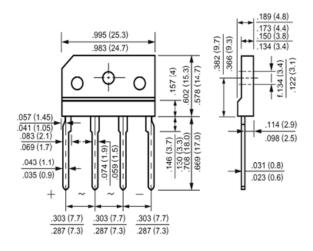
Case: Molded plastic, KBJ

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.16ounce, 4.6gram

## KBJ



Dimensions in inches and (millimeters)

# Maximum Ratings and Electrical Characteristics

For capacitive load, derate current by 20%.

	Symbols	KBJ10005	KBJ1001	KBJ1002	KBJ1004	KBJ1006	KBJ1008	KBJ1010	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward  Rectified Current at T <sub>C</sub> =100℃	I <sub>(AV)</sub>	10.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	175							Amp
Maximum Forward Voltage at 5.0A DC and 25 ℃	V <sub>F</sub>	1.0							Volts
Maximum Reverse Current at $T_A$ =25°C at Rated DC Blocking Voltage $T_A$ =125°C	I <sub>R</sub>	5.0 500							uAmp
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	100							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	3							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , Tstg	-55 to +150							Ω.

#### NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance from Junction to Case with Device Mounted on 75mm x 75mm x 1.6mmCu Plate Heatsink.



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#### RATINGS AND CHARACTERISTIC CURVES

