

# **KBJ15005 THRU KBJ1510**

## 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**

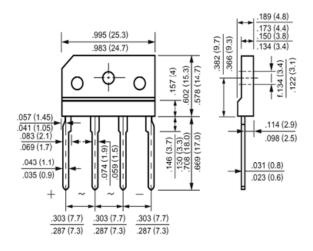
Case: Molded plastic, KBJ

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

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave,  $60H_Z$ , resistive or inductive load. For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	KBJ 15005	KBJ 1501	KBJ 1502	KBJ 1504	KBJ 1506	KBJ 1508	KBJ 1510	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)  Rectified Current @ Tc=100℃ (without heatsink)	I(AV)	15.0 3.2							А
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	240							А
Maximum Forward Voltage at 7.5A DC	VF	1.1							V
Maximum DC Reverse Current @ TJ=25℃ at Rated DC Blocking Voltage @ TJ=125℃	lr	10.0 500							uA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	240							A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	СJ	60							pF
Typical Thermal Resistance (Note2)	Rejc	0.8							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$ C

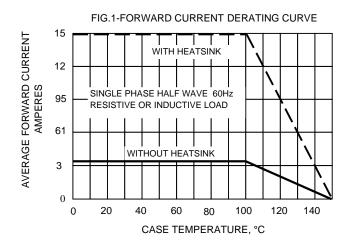
## NOTES:

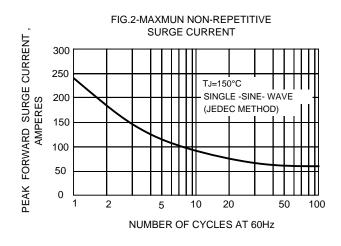
- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2-Thermal Resistance from Junction to Case with Device Mounted on 75mm x 75mm x 1.6mmCu Plate Heatsink.

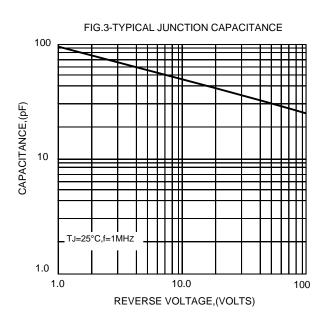


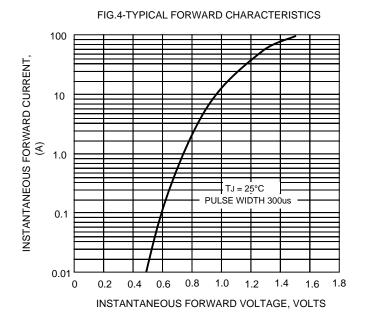
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### RATING AND CHARACTERTIC CURVES









#### FIG.5-TYPICAL REVERSE CHARACTERISTICS

