# KBJ15005 THRU KBJ1510

# GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 15.0 AMPERE

#### **FEATURES**

· Glass passivated chip junction

· Reliable low cost construction utilizing molded plastic technique

- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

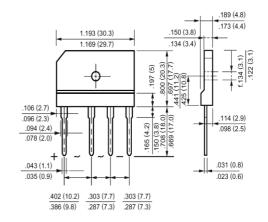
### **MECHANICAL DATA**

Case: Molded plastic, GBJ

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.23ounce, 6.6gram GBJ



Dimensions in inches and (millimeters)

# 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 current by 20%.

	Symbols	KBJ15005	KBJ1501	KBJ1502	KBJ1504	KBJ1506	KBJ1508	KBJ1510	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	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 with Heatsink at $T_{\rm C}$ =100	I <sub>(AV)</sub>	15.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	200							Amp
Maximum Forward Voltage Drop per Element at 7.5A DC and 25	$V_{\mathrm{F}}$	1.05							Volts
Maximum Reverse Current at $T_A$ =25 at Rated DC Blocking Voltage $T_A$ =125	$I_R$	10.0 500							uAmp
Typical Junction Capacitance (Note 1)	$C_{J}$	60							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	0.8							/W
Operating and Storage Temperature Range	T <sub>J</sub> , Tstg	-55 to +150							

#### **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 300mm x 300mm x 1.6mmCu Plate Heatsink.

#### RATINGS AND CHARACTERISTIC CURVES

