

# KBJ4005 THRU KBJ410

### GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

# REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 4.0 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

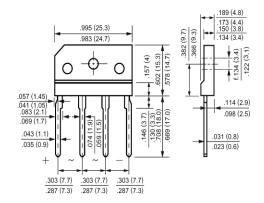
#### **MECHANICAL DATA**

Case: Molded plastic, 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  $25\,^{\circ}$ C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	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> =115℃	I <sub>(AV)</sub>	4.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	120							Amp
Maximum Forward Voltage at 2.0A DC and 25℃	$V_{\mathrm{F}}$	1.0							Volts
Maximum Reverse Current at $T_A=25^{\circ}C$ at Rated DC Blocking Voltage $T_A=125^{\circ}C$	$I_R$	5.0 500							uAmp
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	40							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	5.5							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , Tstg	-55 to +150							್ತಿ

#### 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.

## RATINGS AND CHARACTERISTIC CURVES

