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

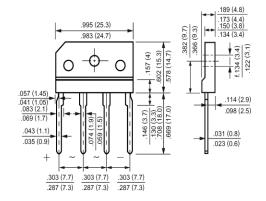
MECHANICAL DATA

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 °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 _{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 _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _C =115℃	I _(AV)	4.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	120							Amp
Maximum Forward Voltage at 2.0A DC and 25℃	V_{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 _J	40							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	5.5							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							ဗ

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

