

KBJ1001 THRU **KBJ1007**

SINGLE PHASE BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 10.0 Ampere

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Dimensions in inches and (millimeters)

FEATURES

- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Mounting: Hole thru for #6 screw
- * Mounting position: Any
- * Weight: 4.8 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		KBJ1001	KBJ1002	KBJ1003	KBJ1004	KBJ1005	KBJ1006	KBJ1007	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)		10.0							Α
Rectified Current at Tc=110°C (Without heatsink)		3.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		170							Α
Maximum Forward Voltage Drop per Bridge Element at 5.0A D.C.		1.05							V
Maximum DC Reverse Current	Ta=25℃	5.0					μА		
at Rated DC Blocking Voltage	Ta=100°C				500				μА
Typical Thermal Resistance Rθ _J c (Note 1)		2.3							°C/W
Typical Thermal Resistance RθμL (Note 2)		6.0							°C/W
Operating Temperature Range, TJ		-55 — +150							°C
Storage Temperature Range, Tsтс		-55 — +150							°C

NOTES:

- 1. Thermal Resistance from Junction to Case with device mounted on 100mm x 1.6mm Cu Plate Heatsink.
- 2. Thermal Resistance from Junction to Lead without Heatsink.

RATING AND CHARACTERISTIC CURVES (KBJ1001 THRU KBJ1007)







