KBU10005 THRU KBU1010

SINGLE-PHASE SILICON BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 10.0 AMPERE

FEATURES

· High surge current capability

· Ideal for printed circuit board

· Plastic material has Underwriters Laboratory Flammability Classification 94V-0

· Reliable low cost construction utilizing molded plastic technique

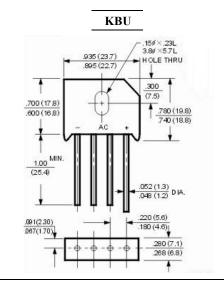
MECHANICAL DATA

Case: Molded plastic, KBU

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.3ounce, 8.0gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at $25\,^\circ\!\!\mathrm{C}$ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by $20\%\,.$

	Symbols	KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010	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 .375"(9.5mm) Lead Length at T _A =55℃	I _(AV)	10.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 250							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 10.0A DC and 25℃	V_{F}	1.1							Volts
Maximum Reverse Current at T _A =25℃	T .	I _R 10.0 500							uAmp
at Rated DC Blocking Voltage T _A =100℃	1 _R								
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	18							°C/W
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	3							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125							С

NOTES:

- 1- Units mounted in free air, no heatsink, P.C.B. at 0.375" (9.5mm) lead length with 0.5 x 0.5" (12 x 12mm) copper pads
- 2- Units mounted on a 3.0 x 3.0" x 0.11" thick (7.5 x 7.5 x 0.3cm) Al. Plate heatsink

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RATINGS AND CHARACTERISTIC CURVES

