KBU10005 THRU KBU1010

SINGLE-PHASE SILICON BRIDGE RECTIFIER

REVERSE VOLTAGE: 50 to 1000 V FORWARD CURRENT: 10 A

Features

- · Reliable low cost construction utilizing molded plastic technique
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability
- · Ideal for printed circuit board

Mechanical Data

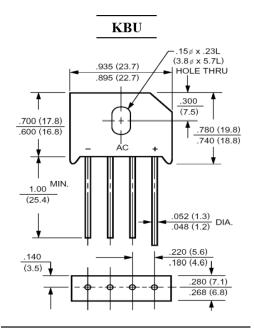
· Case: Molded plastic, KBU

• Epoxy: UL 94V-0 rate flame retardant

Terminals: leads solderable per MIL-STD-202,

Method 208 guaranteed

· Mounting Position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375"(9.5 mm) Lead Length at T _A = 55 °C	I _(AV)	10							Α
Peak Forward Surge Current 8.3 ms Single Half-Sine -Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	300						Α	
Maximum Forward Voltage at 10 A	V _F	1.1					V		
Maximum Reverse Current $T_A = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_A = 100 ^{\circ}\text{C}$	I _R	10 500						μΑ	
Typical Thermal Resistance 1)	$R_{\theta JA}$	18						°C/W	
Typical Thermal Resistance 2)	$R_{\theta JC}$	3						°C/W	
Operating and Storage Temperature Range	T_J , T_S	- 55 to + 125						°C	

¹⁾ Units mounted in free air, no heatsink, P.C.B at 0.375" (9.5 mm) lead length with 0.5 X 0.5" (12 X 12 mm) copper pads.

²⁾ Units mounted on a 3 X 3 X 0.11" (7.5 X 7.5 X 0.3 cm) thick Al. plate heatsink.



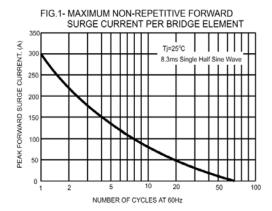
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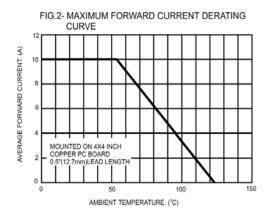
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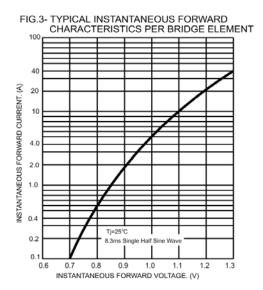


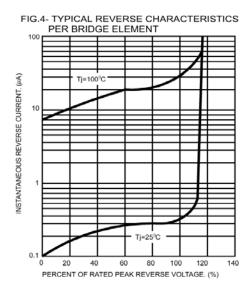














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