KBU10005 THRU KBU1010

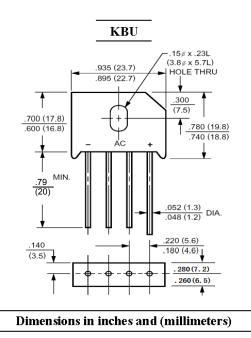
Single-Phase Silicon Bridge Rectifier Reverse Voltage: 50 - 1000 V Forward Current: 10 A

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



Absolute Maximum Ratings and Characteristics

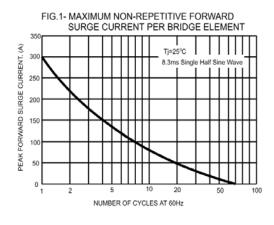
Ratings at $T_a = 25$ °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010	Units
	Marking	KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010	-
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	I _(AV)	I _(AV) 10							А
0.375"(9.5 mm) Lead Length at $T_a = 55 ^{\circ}C$									
Peak Forward Surge Current 8.3 ms Single Half-Sine -Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	175							А
Maximum Forward Voltage at 10 A	V_{F}	1.1						V	
Maximum Reverse Current $T_a = 25 \ ^{\circ}C$ at Rated DC Blocking Voltage $T_a = 100 \ ^{\circ}C$	I _R	10 500							μA
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	18							°C\M
Typical Thermal Resistance 2)	$R_{ extsf{ heta}JC}$	3							°C\M
Operating and Storage Temperature Range	T _J ,T _{Stg}	- 55 to + 150							°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.





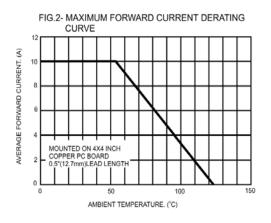


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

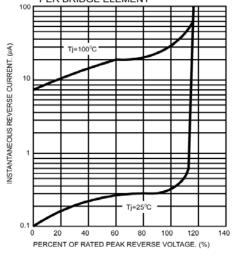


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

