KBU8A THRU KBU8M

SINGLE PHASE SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 V Forward Current - 8 A

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



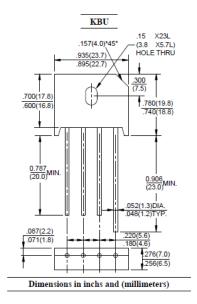
· Case: Molded plastic, KBU

• Epoxy: UL 94V-0 rate flame retardant

• Terminals: Leads solderable per MIL-STD-202

method 208 guaranteed

• Mounting position: Any



Maximum Ratings and Electrical 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%.

Tor capacitive load, derate current by 2078.					1				
Parameter	Symbols	KBU8A	KBU8B	KBU8D	KBU8G	KBU8J	KBU8K	KBU8M	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) Leaded Length at T _A = 65 °C	I _{F(AV)}	8							Α
Peak Forward Surge Current, 8.3 ms Single Half- Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	200							Α
Maximum Forward Voltage at 8 A	V _F	1.1							V
Maximum Reverse Current at Rated $T_A = 25 ^{\circ}\text{C}$ 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 _{stg}	- 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" thick (7.5 X 7.5 X 0.3 cm) Al. Plate heatsink.

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