KBU8005 THRU KBU810

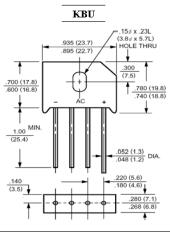
SINGLE PHASE SILICON BRIDGE RECTIFIERS Reverse Voltage - 50 to 1000 V Forward Current - 8 A

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

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 inchs and (millimeters)

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%.

Parameter	Symbols	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	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							А
Peak Forward Surge Current, 8.3 ms Single Half- Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	300							А
Maximum Forward Voltage at 8 A	V _F	1.1							V
Maximum Reverse Current at Rated $T_A = 25 ^{\circ}C$ DC Blocking Voltage $T_A = 100 ^{\circ}C$	I _R	10 500							μΑ
Typical Thermal Resistance ¹⁾	R _{0JA}	18							°C/W
Typical Thermal Resistance ²⁾	$R_{ extsf{ heta}JC}$	3						°C/W	
Operating and Storage Temperature Range	T _j , T _{stg}	- 55 to + 125							°C

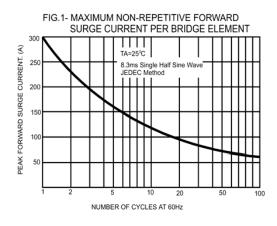
¹⁾ Units mounted in free air, no heatsink, P.C.B at 0.375" (9.5 mm) lead length with 0.5 X 0.5" (12 X 12 mm) copper pads.

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

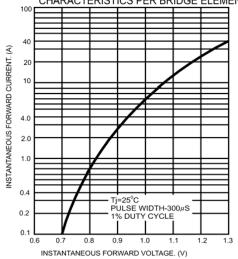
listed on the Hong Kong Stock Exchange, Stock Code: 724)











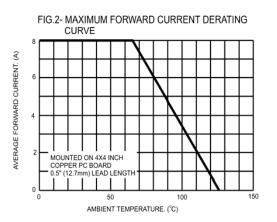


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

