# KBU8005 THRU KBU810



## SINGLE-PHASE SILICON BRIDGE RECTIFIER

REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 8.0 AMPERE

#### **FEATURES**

· Reliable low cost construction utilizing molded plastic technique

· Ideal for printed circuit board

· Low forward voltage drop

· Low reverse leakage current

· High surge current capability

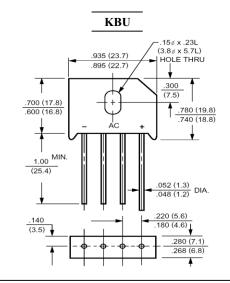
#### **MECHANICAL DATA**

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

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

For capacitive load, derate current by 20%.

	Symbols	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T <sub>A</sub> =55℃	I <sub>(AV)</sub>	8.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	300							Amp
Maximum Forward Voltage at 8.0A DC and 25 ℃	$V_{\mathrm{F}}$	1.1							Volts
Maximum Reverse Current at $T_A=25^{\circ}$ C at Rated DC Blocking Voltage $T_A=100^{\circ}$ C	I <sub>R</sub>	10.0 500							uAmp
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 <sub>J</sub> , Tstg	-55 to +125							ဗ

#### **NOTES:**

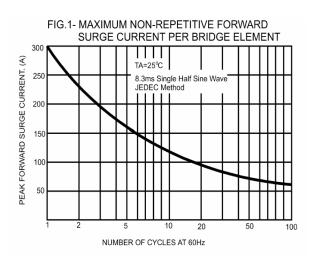
- 1- Units mounted in free air, no heatsink, P.C.B. at 0.375" (9.5mm) lead length with 0.5 x 0.5" (12 x 12mm) copper pads
- 2- Units mounted on a 3.0 x 3.0" x 0.11" thick (7.5 x 7.5 x 0.3cm) Al. Plate heatsink

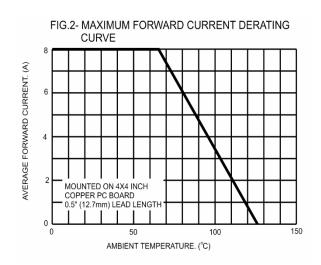
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### RATINGS AND CHARACTERISTIC CURVES







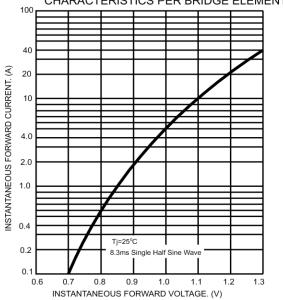


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

