

Crownpo Technology

REVERSE VOLTAGE: 50 to 1000 VOLTS

FORWARD CURRENT: 6.0 AMPERE

SINGLE-PHASE SILICON BRIDGE RECTIFIER

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

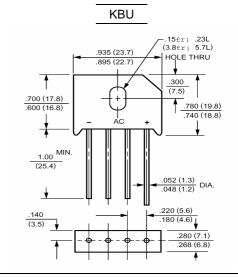
MECHANICAL DATA

Case: Molded plastic, KBU

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.3ounce, 8.0gram



Dimensions in inchs and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBU6005	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610	Symbols
Maximum Recerrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T _A =65°C	I _(AV)	6							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200							Amp
Maximum Forward Voltage at 6.0A DC and 25°C	V _F	1							Volts
Maximum Reverse Current at T_A =25°C at Rated DC Blocking Voltage T_A =100°C	I _R	10 500							uAmp
Typical Thermal Resistance (Note 2)	R ©JA	8.6							°C/W
Typical Thermal Resistance (Note 2)	R ©JL	3.1							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125							°C

NOTES:

- 1- Measured at 1 MH zand applied reverse voltage of 4.0 VDC.
- 2- Thermal resistance from junction to ambient with units free air, P.C.B. mounted on 0.5 x 0.5" (12 x 12mm) copper pads, 0.375" (9.5mm) lead length

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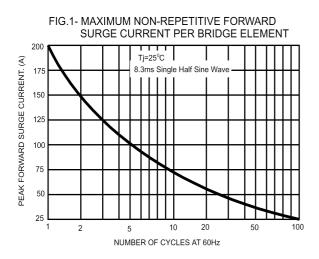


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RATINGS AND CHARACTERISTIC CURVES



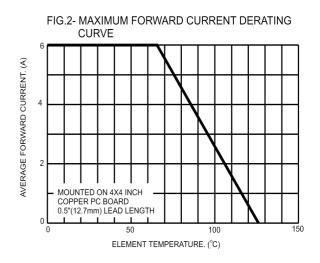


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

100

40

40

40

40

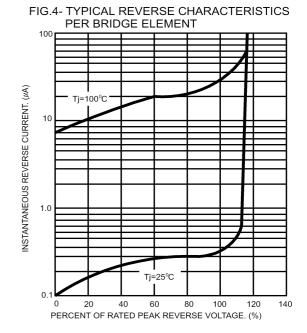
0.4

PULSE WIDTH-300µS 1% DUTY CYCLE

INSTANTANEOUS FORWARD VOLTAGE. (V)

1.0

1.3



0.2

0.1