

KBU6005 THRU KBU610

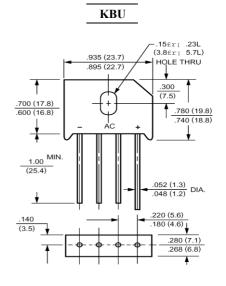
SILICON BRIDGE RECTIFIER

FEATURES

- Reliable low cost construction utilizing molded plastic technique
- · Ideal for printed circuit board
- \cdot Low forward voltage drop
- \cdot Low reverse leakage current
- \cdot 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

Ratings at 25 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	Units
Maximum Recurrent 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	I _(AV)	6.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave	I _{FSM}	100							Amp
superimposed on rated load (JEDEC method) Maximum Forward Voltage at 6.0A DC and 25	V _F	1.0							Volts
Maximum Reverse Currentat $T_A=25$ at Rated DC Blocking Voltage $T_A=100$	I _R	10.0 500							uAmp
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	8.6							/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	3.1							/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125							

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal resistance from junction to ambient with units in free air, P.C.B. mounted on 0.5 x 0.5" (12 x 12mm) copper pads, 0.375" (9.5mm) lead length

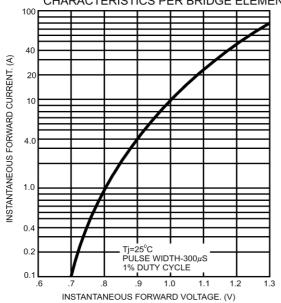




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FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT 140 Ti=25°C PEAK FORWARD SURGE CURRENT. (A) 120 8 3ms Single Half Sine Wave 100 80 60 40 20 0 1 2 5 10 20 50 100 NUMBER OF CYCLES AT 60Hz

FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



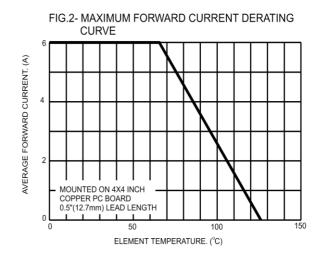
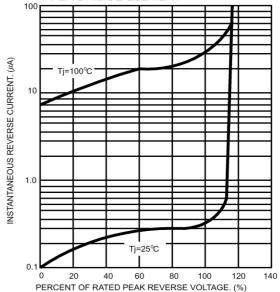


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



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Characteristic Curves (T_A=25 $^{\circ}$ C unless otherwise noted)