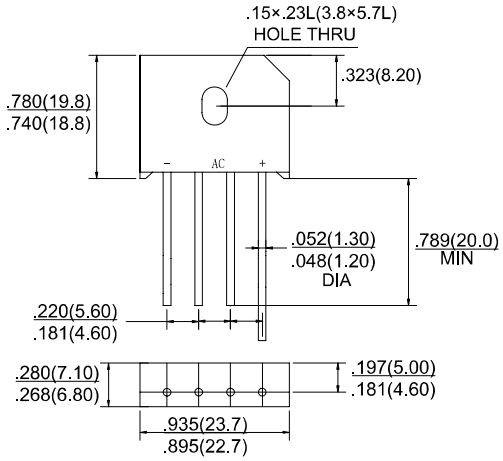
BRIDGE RECTIFIER
KBU8005 Thru KBU810 8.0 Amps

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260°C / 10 seconds / 0375" (9.5mm) lead length at 5lbs, (2.3kg) tension

KBU



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Molded plastic body
- Lead: Solder plastic
- Polarity as marked

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified .
Single phase, half wave , 60Hz, resistive or inductive load .
For capacitive load, derate current by 20%

Parameter	Symbol	KBU 8005	KBU 801	KBU 802	KBU 804	KBU 806	KBU 808	KBU 810	Unit
		8A	8B	8D	8G	8J	8K	8M	
Maximum Repetitive 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 @ Ta = 90℃ Rectified Current @ Ta = 40 ℃	$I_{(AV)}$	8.0 6.0							A
Peak Forward Surge (Non-Repetitive) Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	180							A
Maximum Instantaneous Forward Voltage @1.0A	V_F	1.0							V
Maximum DC Reverse Current At rated DC Blocking Voltage @ TA =25℃	I_R	10							μA
Junction Thermal Resistance (Note 1, 2)	$R_{\theta JA}$ (1) $R_{\theta JC}$ (2)	9 3.7							℃ / W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTE: 1. Units mounted in free air no heat sink on P.C.B. 0.5 x 0.5" (12 x 12mm) Copper Pads, 0.375
2. Units mounted on a aluminum plate heat sink.

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RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

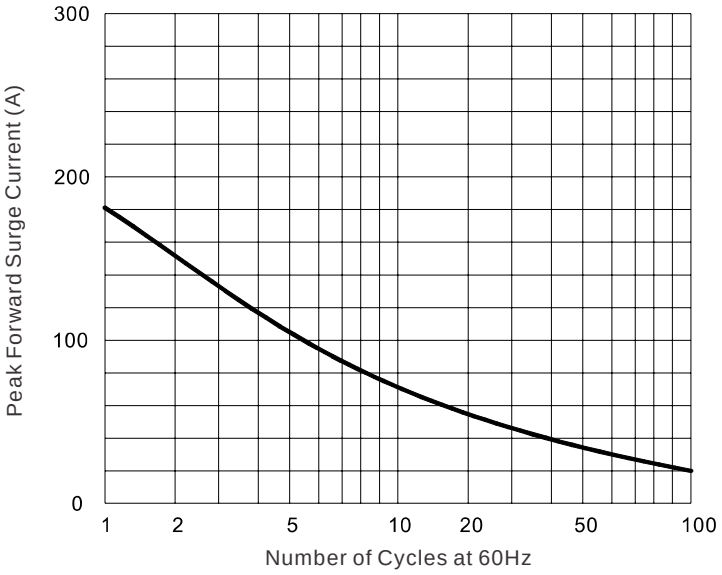


FIG.2-MAXIMUM CURRENT DERATING CURVE

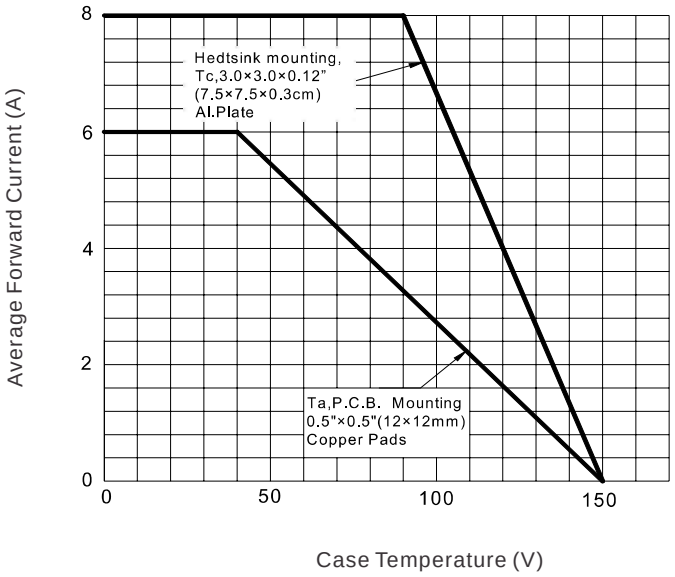


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

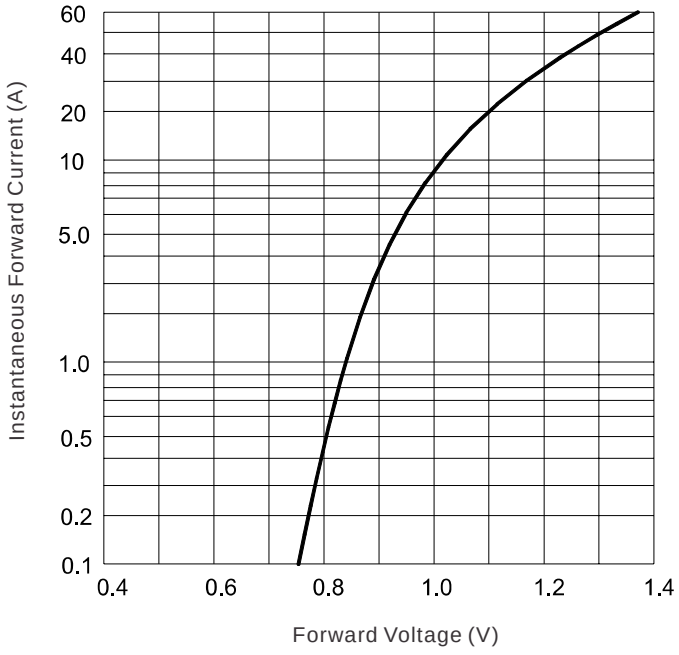
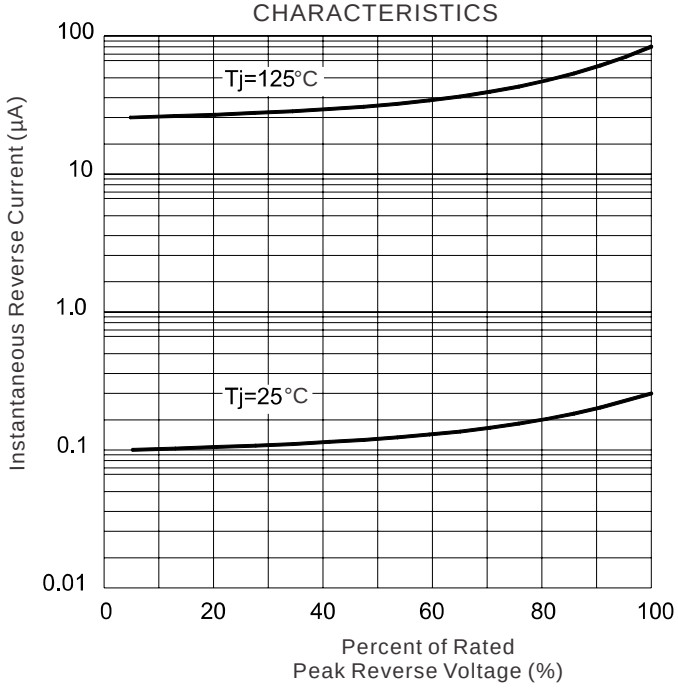


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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