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KBU6005 THRU KBU610

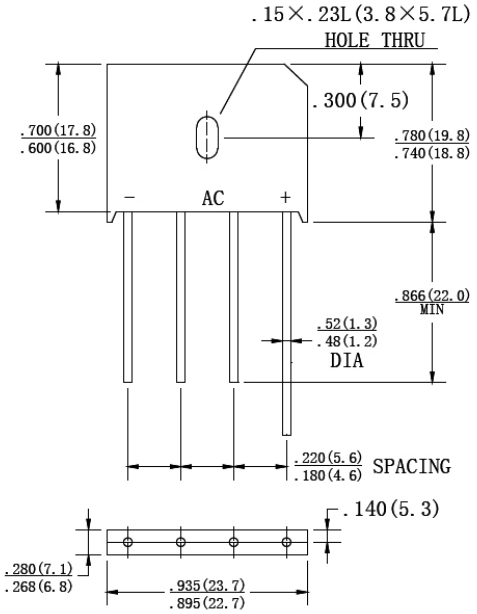
Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 6.0 Amperes

KBU

FEATURES

- ◆Ideal for printed circuit board
- ◆Reliable low cost construction technique results in inexpensive product
- ◆High temperature soldering guaranteed: 260℃ / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- ◆UL Recognized File number: E347214



Dimensions in inches and (millimeters)

MECHANICAL DATA

- ◆Case: Molded plastic
- ◆Lead: solder plated
- ◆Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.For capacitive load, derate current by 20%

	SYMBOLS	KBU 6005	KBU 601	KBU 602	KBU 604	KBU 606	KBU 608	KBU 610	UNITS
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 Rectified Current at T_A=65℃	$I_{(AV)}$	6.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	175							A
Maximum Instantaneous Forward Voltage at 6.0A	V_F	1.0							V
Maximum DC Reverse Current @ T_A=25℃ Rated DC Blocking voltage per leg T_A=125℃	I_R	5.0 500							μA
Typical Thermal Resistance (Note1) (Note2)	$R_{\theta JA}$ $R_{\theta JC}$	8.6 3.1							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Note: 1.Thermal Resistance from Junction to Ambient with units in Free Air, P.C.B. Mounted on 0.5×0.5"(12×12mm) Copper Pads,0.375" (9.5mm)Lead Length.

2. Thermal Resistance from Junction to Case with units Mounted on 2.6×1.4×0.06" Thick(6.5×3.5×0.15cm)Al.Plate.

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RATING AND CHARACTERISTIC CURVES KBU6005 THRU KBU610

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELELMENT

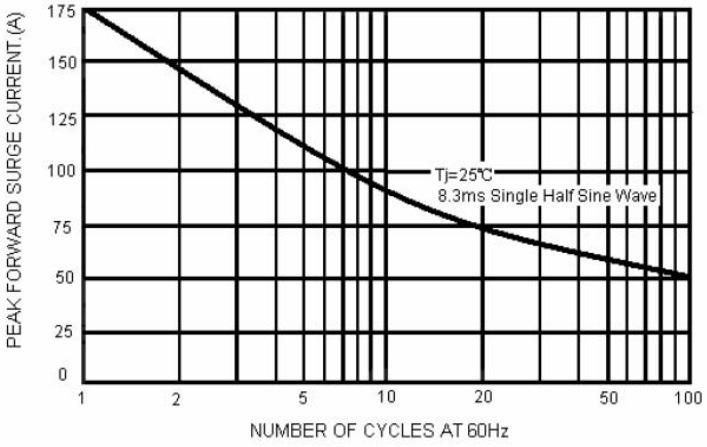


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

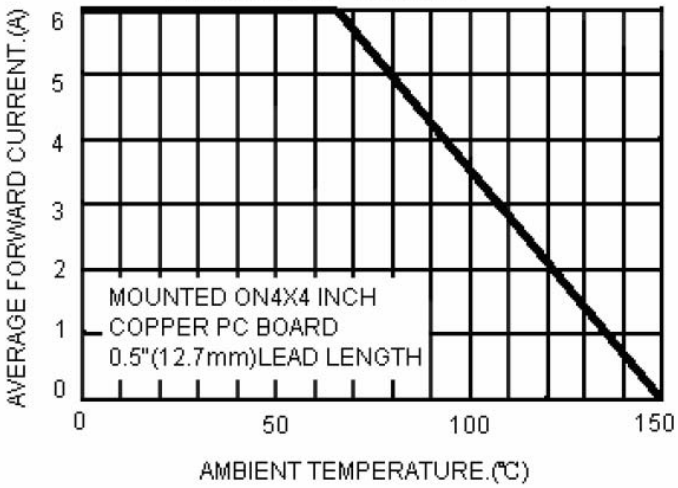


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

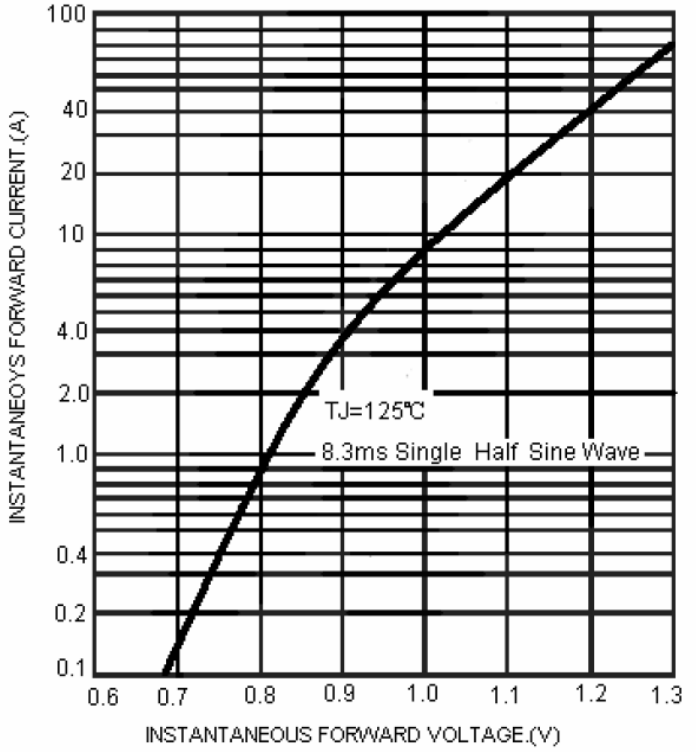
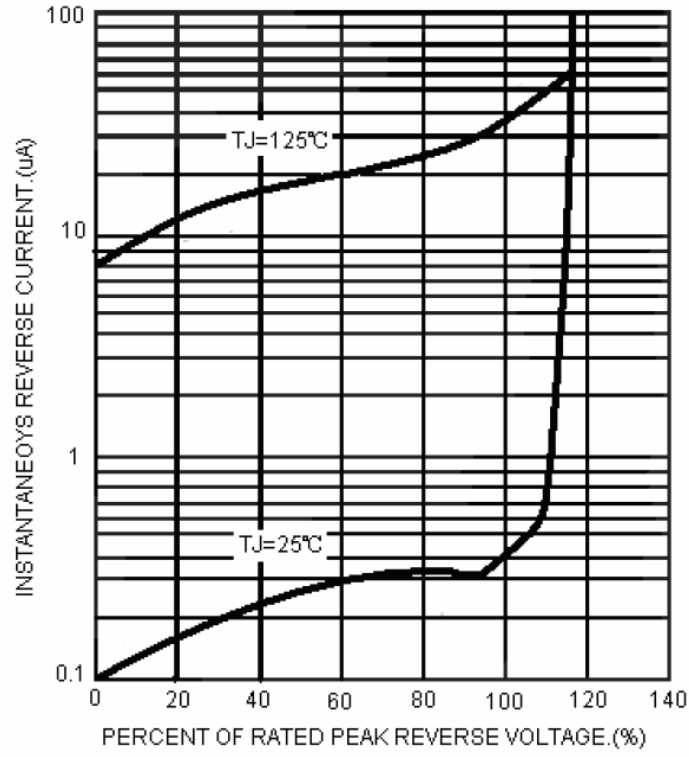


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.