



KBU6005 THRU KBU610

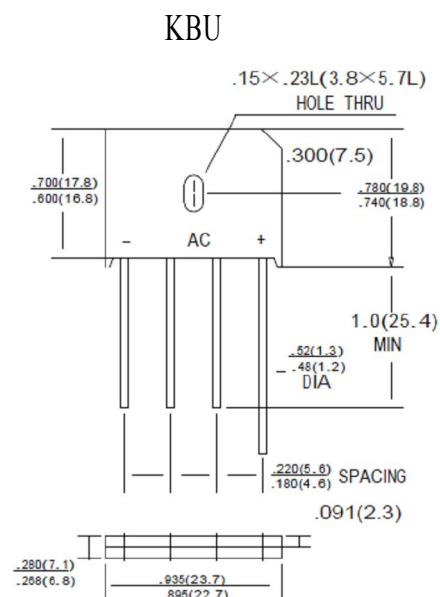
Single Phase 6.0 AMPS. Silicon Bridge Rectifiers
Voltage Range: 50 to 1000 Volts Current: 6.0 Amperes

Features

- UL Recognized File # E-230084
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:
260°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension

Mechanical Data

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



Dimensions in inch and (millimeteres)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

Type Number		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 @T _A = 65°C	I(AV)	6.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	175							A
Maximum Instantaneous Forward Voltage @ 6.0A	V _F	1.1							V
Maximum DC Reverse Current @ T _A = 25°C rated DC blocking voltage per leg T _A = 125°C	I _R	5.0 500							μA
Typical Thermal Resistance (Note1) (Note2)	R _{θJA} R _{θJC}	8.6 3.1							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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.

RATING AND CHARACTERISTIC CURVES

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

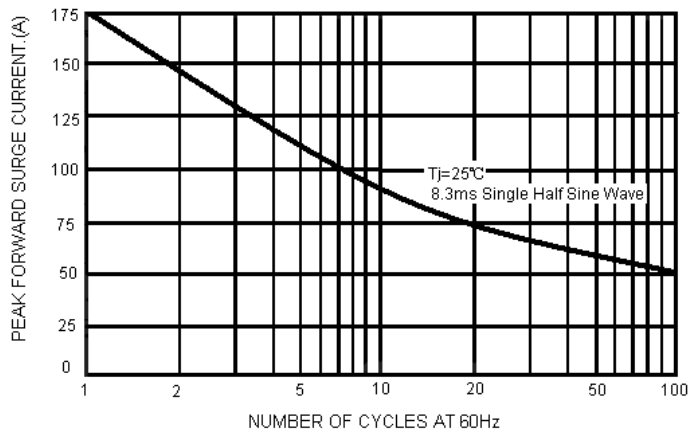


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

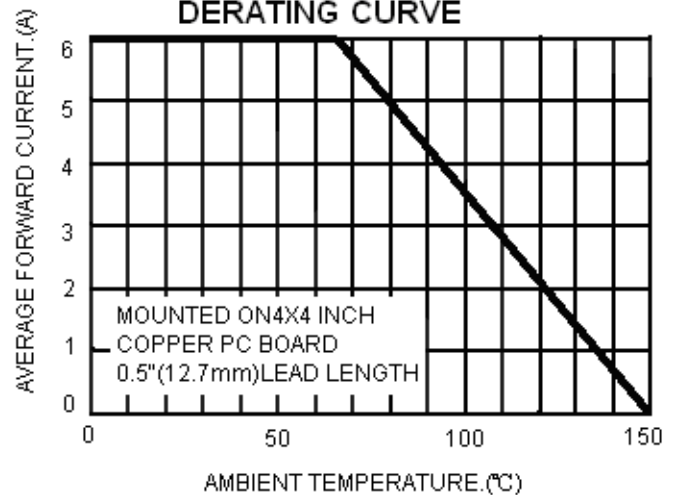


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

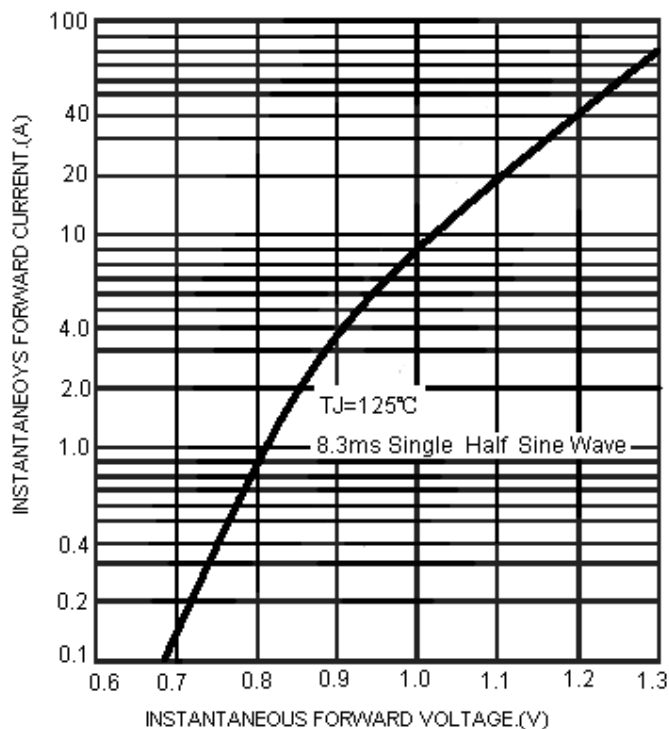


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

