



KBU8005 THRU KBU810

**Single Phase 8.0 AMPS.
Glass Passivated Bridge Rectifiers**

**Voltage Range
50 to 1000 Volts
Current
8.0 Amperes**

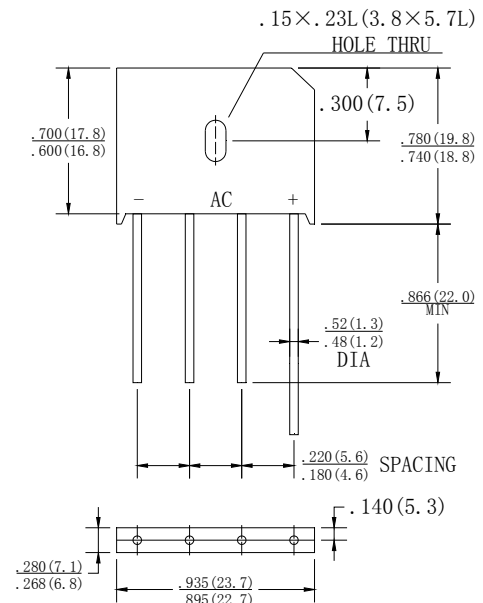
Features

- 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

KBU



Dimensions in inches and (millimeters)

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 8005	KBU 801	KBU 802	KBU 804	KBU 806	KBU 808	KBU 810	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)	8.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							A
Maximum Instantaneous Forward Voltage @ 8.0A	V _F	1.0							V
Maximum DC Reverse Current @ T _A =25°C rated DC blocking voltage per leg T _A = 125°C	I _R	5.0 500							μ A
Typical Thermal Resistance (Note1) (Note2)	R θ _{JA} R θ _{JC}	18.0 3.0							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTE: 1. Units Mounted In Free Air No Heat Sink on P.C.B. 0.5×0.5" (12×12mm) Copper Pads, 0.375" (9.5mm) Lead Length.

2. Units Case Mounted On 3.2×3.2×0.12" Thick (8.2×8.2×0.3cm) Al. Plate Heat Sink.

RATING AND CHARACTERISTIC CURVES

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

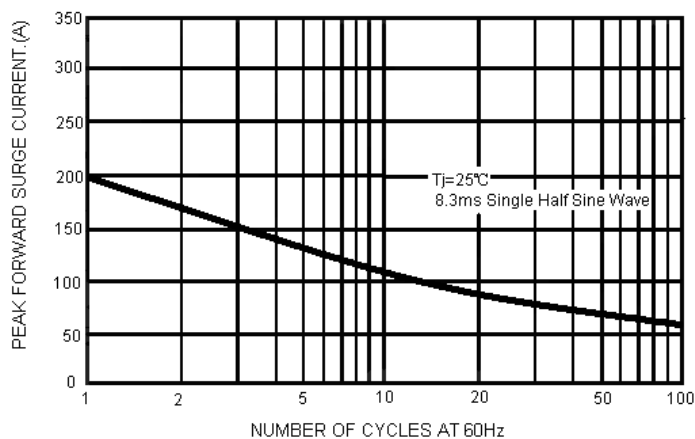


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

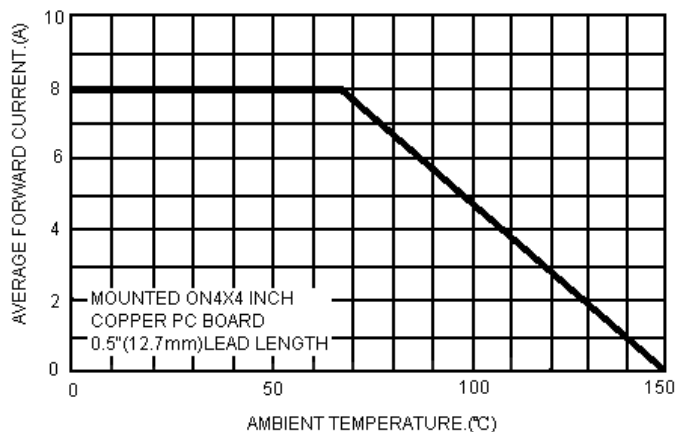


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

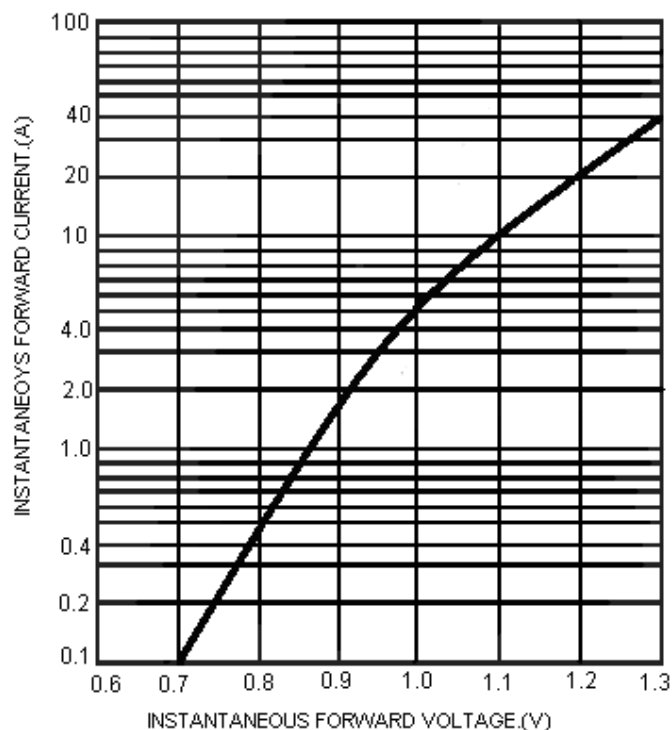


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

