

# KBU6005 THRU KBU610

Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 6.0 Amperes

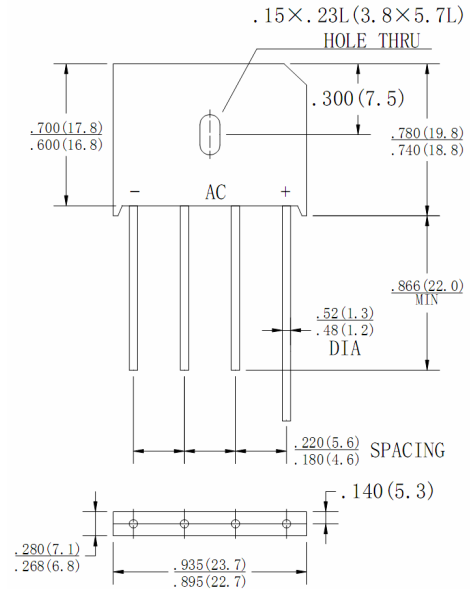
## FEATURES

- ◆ 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
- ◆ UL Recognized File number: E347215

## 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, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number		KBU	KBU	KBU	KBU	KBU	KBU	KBU	UNITS
		6005	601	602	604	606	608	610	
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 @ $T_A = 65^\circ C$	$I(AV)$	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	$V_F$	1.0							V
Maximum DC Reverse Current @ $T_A = 25^\circ C$ Rated DC Blocking voltage per leg $T_A = 125^\circ C$	$I_R$	5.0 500							$\mu A$
Typical Thermal Resistance (Note 1) (Note 2)	$R\theta_{JA}$ $R\theta_{JC}$	8.6 3.1							$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +150							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ C$

Note: 1. Thermal Resistance from Junction to Ambient with units in Free Air, P.C.B. Mounted on 0.5x0.5" (12x12mm) Copper

Pads, 0.375" (9.5mm) Lead Length. 2. Thermal Resistance from Junction to Case with units Mounted on 2.6x1.4x0.06" Thick (6.5x3.5x0.15cm) Al. Plate.

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## RATING AND CHARACTERISTIC CURVES KBU6005 THRU KBU610

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

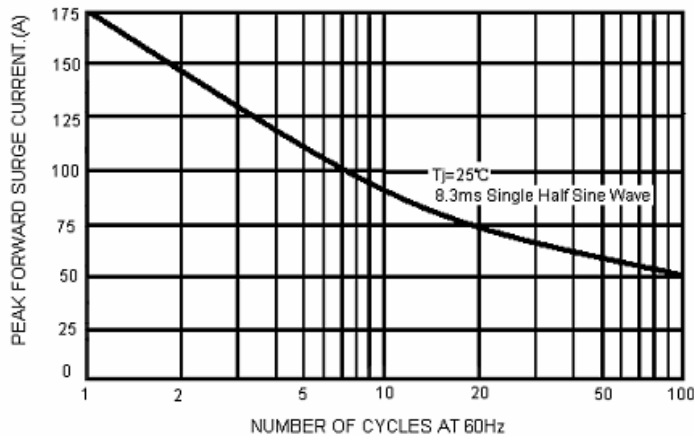


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

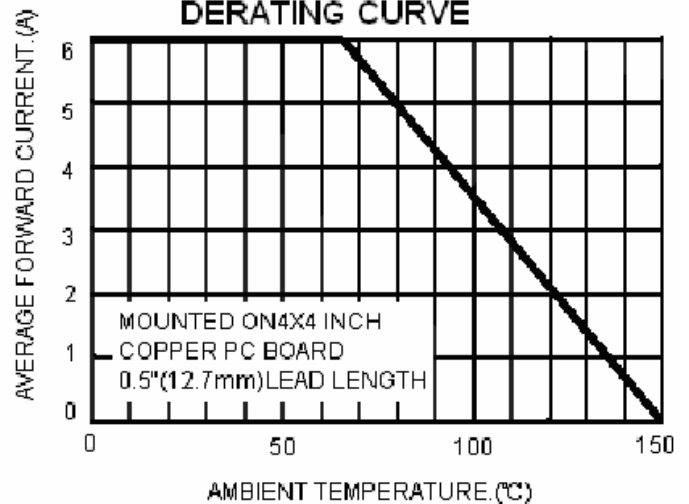


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

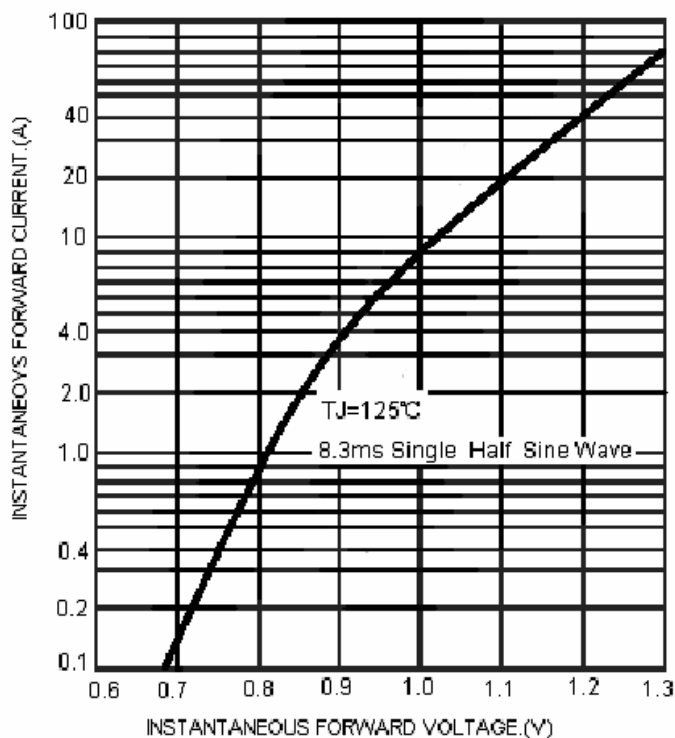
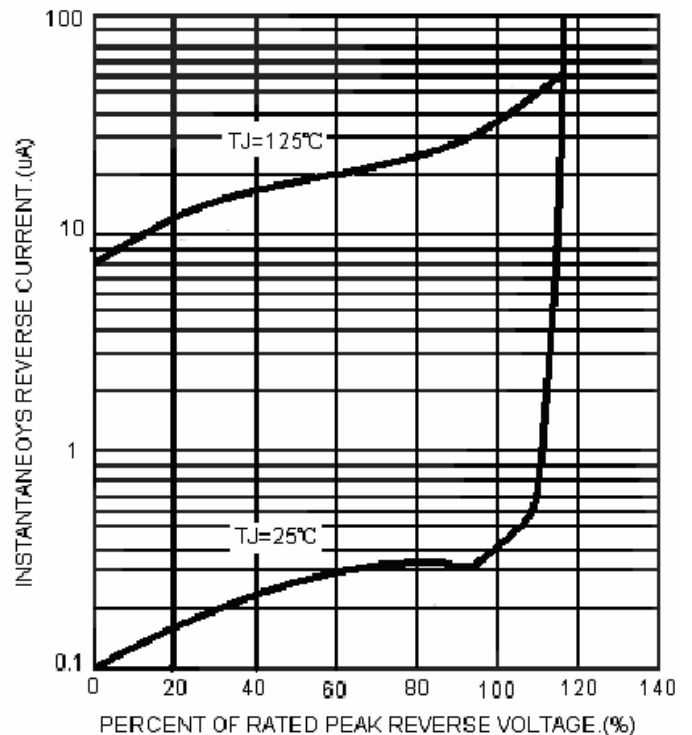


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specification are subject to change without notice. For more detail and update, please visit our website.