

# **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

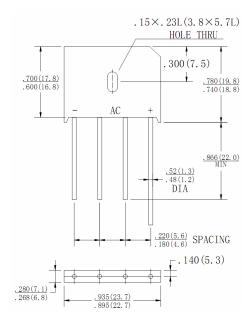
#### Mechanical Data

◆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	I(AV)	6.0							А
<b>@</b> T <sub>A</sub> = 65°C									
Peak Forward Surge Current, 8.3 ms Single									
Half Sine-wave Superimposed on Rated	I <sub>FSM</sub> 175							Α	
Load (JEDEC method )									
Maximum Instantaneous Forward Voltage @ 6.0A	$V_{F}$	1.0						V	
Maximum DC Reverse Current @ TA=25℃		5.0							μА
Rated DC Blocking voltage per leg TA = 125℃	I <sub>R</sub>	500							
Typical Thermal Resistance (Note 1)	Rθ <sub>JA</sub> 8.6							°C/W	
(Note 2)	$R\theta_{JC}$	3.1							
Operating Temperature Range	TJ	-55 to +150						$^{\circ}$	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150						$^{\circ}$	

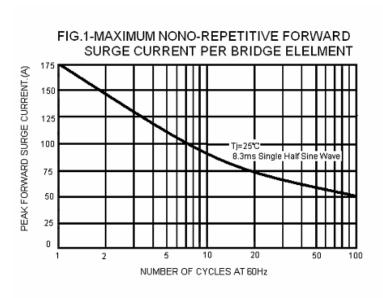
Note: 1.Thermal Resistance from Junction to Ambient with units in Free Air, P.C.B. Mounted on 0.5×0.5"(12×12mm) Copper

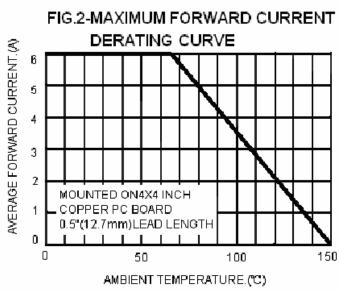


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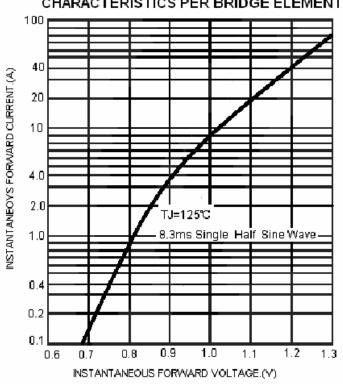
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### RATING AND CHARACTERISTIC CURVES KBU6005 THRU KBU610

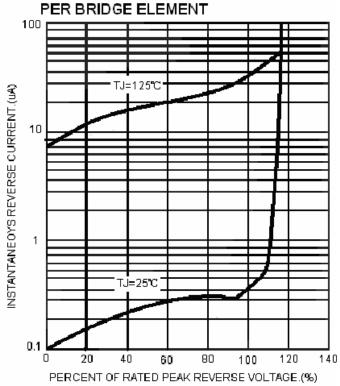








### FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



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