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:

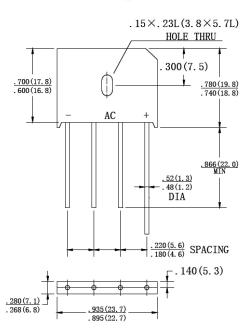
 $260\,^\circ\!\!\mathrm{C}$ / 10 seconds / 0.375" (9.5mm)

lead length at 5 lbs., (2.3 kg) tension

◆UL Recognized File number: E347214

MECHANICAL DATA

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



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%

	SYMBOLS	KBU	KBU	KBU	KBU	KBU	KBU	KBU	UNITS
		6005	601	602	604	606	608	610	
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at TA=65°C	I(AV)	6.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	Ігѕм	175							A
Maximum Instantaneous Forward Voltage at 6.0A	VF	1.0							V
Maximum DC Reverse Current @ T _A =25°C Rated DC Blocking voltage per leg T _A =125°C	lr	5.0 500							μA
Typical Thermal Resistance (Note1)	Reja 8.6							°C/W	
(Note2)	Rejc	3.1							0700
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

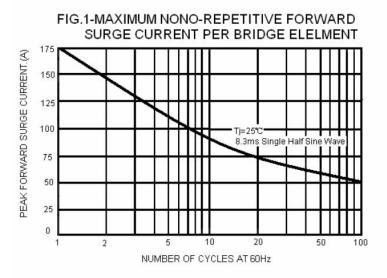
Note: 1.Thermal Resistance from Junction to Ambient with units in Free Air, P.C.B. Mounted on 0.5×0.5"(12×12mm) Copper Pads,0.375"

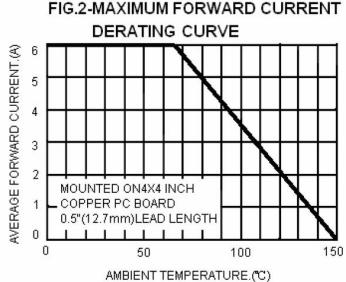
(9.5mm)Lead Length.

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

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RATING AND CHARACTERISTIC CURVES KBU6005 THRU KBU610

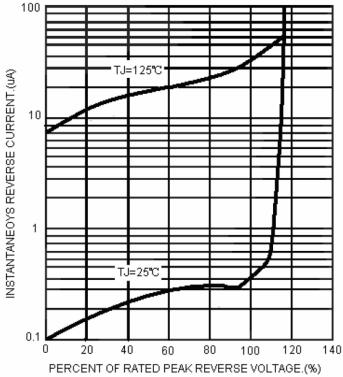




CHARACTERISTICS PER BRIDGE ELEMENT 100 40 NSTANTANEOYS FORWARD CURRENT.(A) 20 10 4.0 2.0 TJ=125°C 8.3ms Single Half Sine Wave 1.0 0.4 0.2 0.1 1.2 0.8 0.9 1.0 1.1 1.3 0.6 0.7 INSTANTANEOUS FORWARD VOLTAGE.(V)

FIG.3-TYPICAL INSTANTANEOUS FORWARD FIG.4-TYPICAL INSTANTANEOUS FIG.4-TYPICAL FIG.4-TYPICAL FIG.4-TYPICAL FIG.4-TYPICAL FI

FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.