

KBU6005 THRU KBU610

Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers

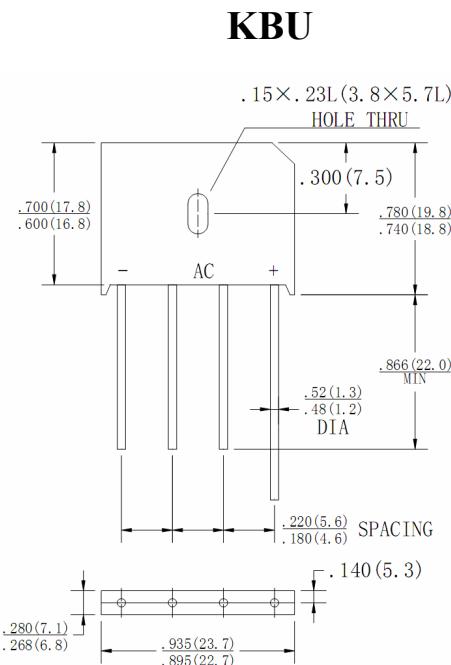
Voltage Range 50 to 1000 Volts Current 6.0 Amperes

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



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°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 @ TA=25°C Rated DC Blocking voltage per leg TA = 125°C	I _R	5.0 500						μ A	
Typical Thermal Resistance (Note 1) (Note 2)	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.

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RATING AND CHARACTERISTIC CURVES KBU6005 THRU KBU610

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

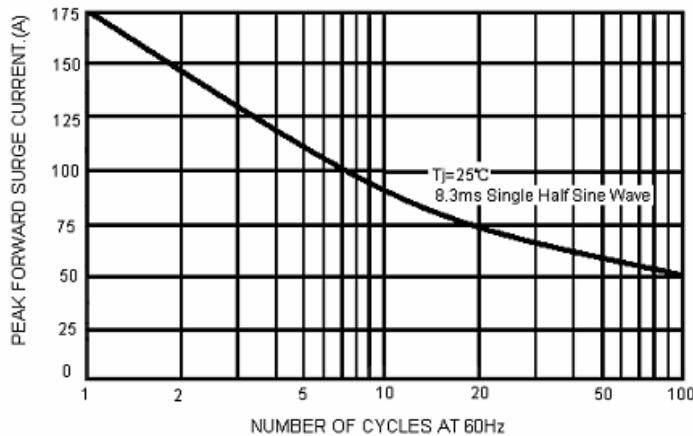


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

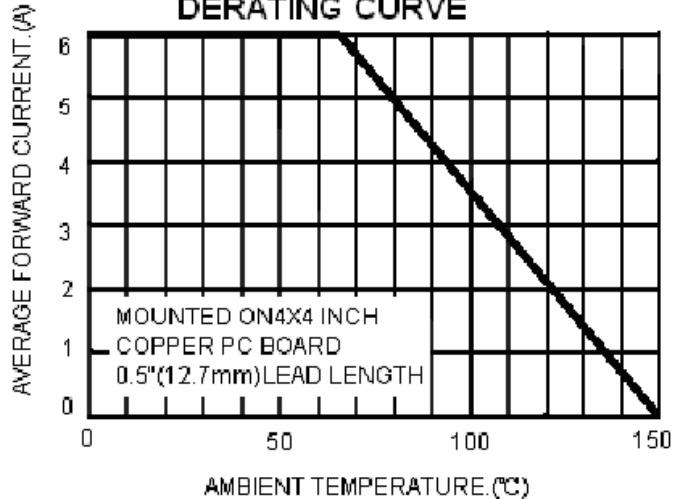


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

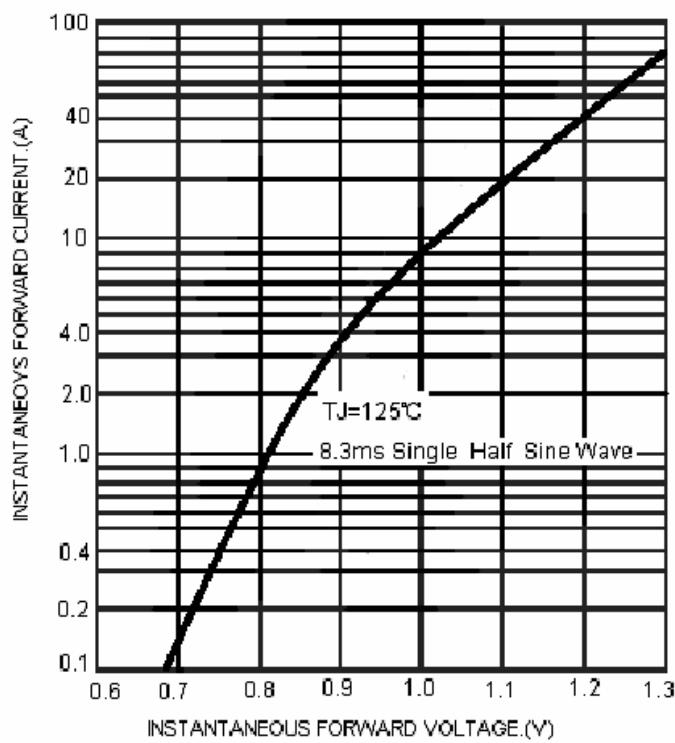
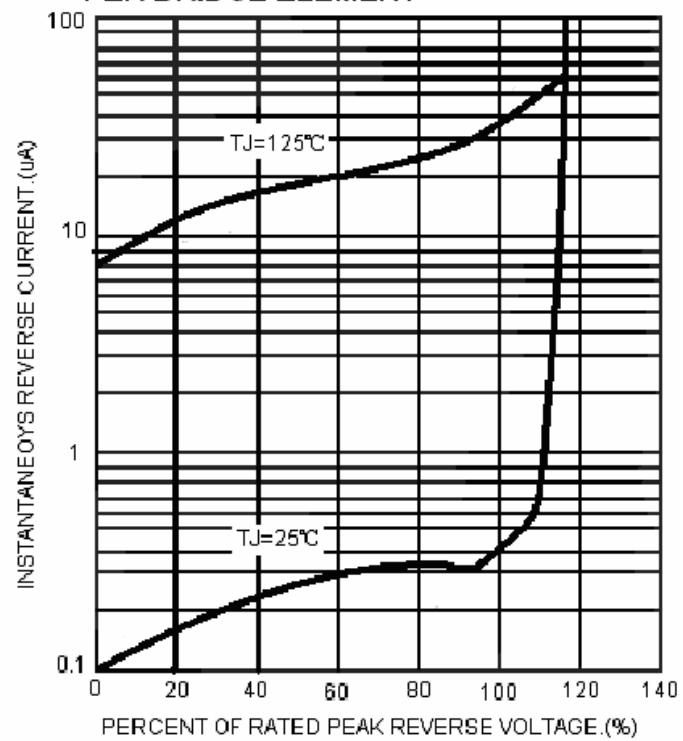


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



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