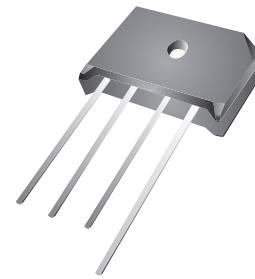


## KBU6005-G Thru. KBU610-G

Reverse Voltage: 50 to 1000V

Forward Current: 6.0A

RoHS Device

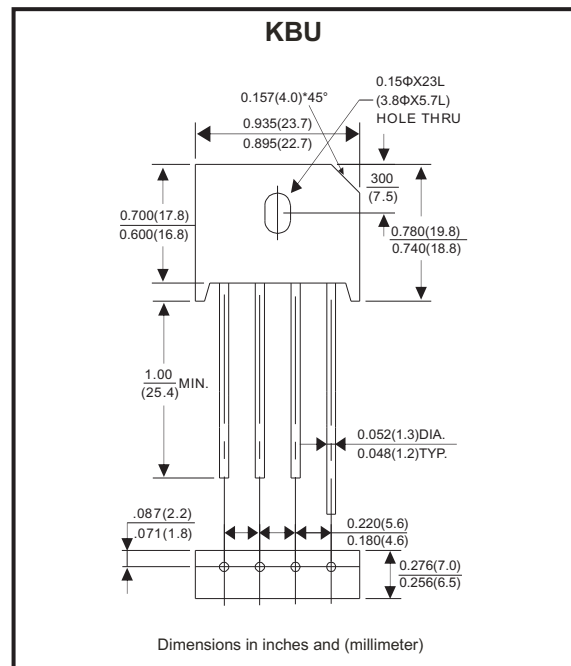


### Features

- Surge overload rating -175 amperes peak.
- Ideal for printed circuit board.
- UL recognized file # E349301

### Mechanical Data

- Epoxy: UL 94V-0 rate flame retardant.
- Case: Molded plastic, KBU
- Mounting position: Any
- Weight: 7.40 grams (approx.).



### 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%

Parameter	Symbol	KBU 6005-G	KBU 601-G	KBU 602-G	KBU 604-G	KBU 606-G	KBU 608-G	KBU 610-G	Unit
Maximum Recurrent 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 Output Current @ $T_C=100^{\circ}C$	$I_{(AV)}$	6.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	$I_{FSM}$	175							A
Maximum Instantaneous Forward Voltage Drop per Element at 3.0A	$V_F$	1.0							V
Max. Reverse Leakage at rated DC Blocking Voltage per Element @ $T_J=25^{\circ}C$ @ $T_J=100^{\circ}C$	$I_R$	10.0 200							$\mu A$
Typical Junction Capacitance Per Element (Note 1)	$C_J$	260							pF
Operating Temperature Range	$T_J$	-55 to +150							$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^{\circ}C$

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Company reserves the right to improve product design, functions and reliability without notice.

REV: B

## Rating and Characteristics Curves (KBU6005-G Thru. KBU610-G)

Fig.1 - Derating Curve Output Rectified Current

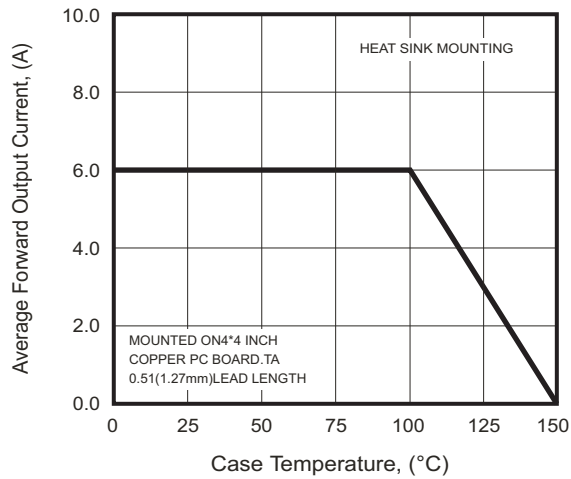


Fig.2 - Typical Instantaneous Forward Characteristics

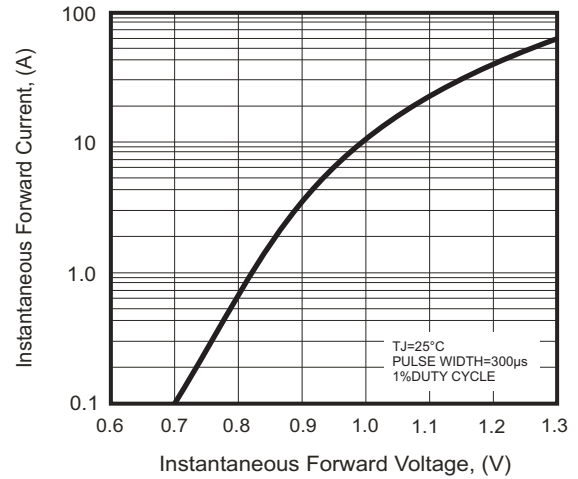


Fig.3 - Maximum Non-repetitive Peak Forward Surge Current

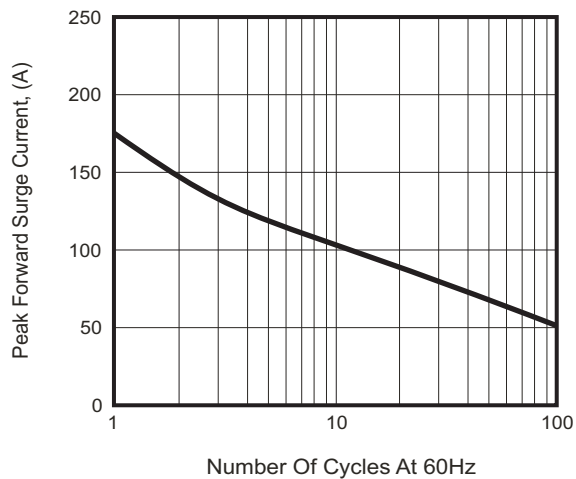


Fig.4 - Typical Junction Capacitance Per Element

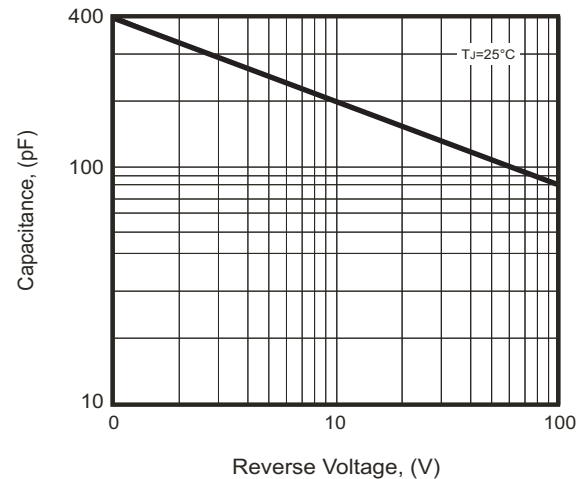
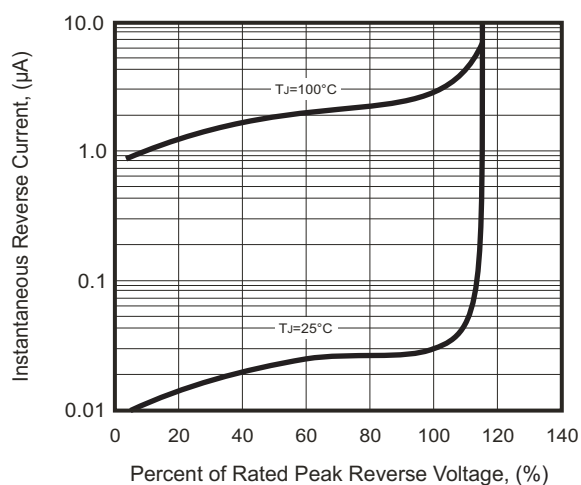


Fig.5 - Typical Reverse Characteristics

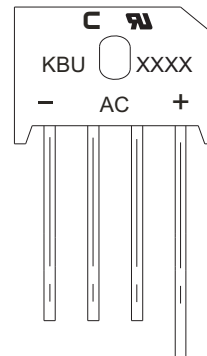


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REV: B

## Marking Code

Part Number	Marking code
KBU6005-G	KBU6005
KBU601-G	KBU601
KBU602-G	KBU602
KBU604-G	KBU604
KBU606-G	KBU606
KBU608-G	KBU608
KBU610-G	KBU610



**XXX / XXXX = Product type marking code**

**C = Compchip Logo**

## Standard Packaging

Case Type	BULK PACK	
	BOX ( pcs )	Carton ( pcs )
KBU	400	2,400