



# THE DATASHEET OF KBU2510-G

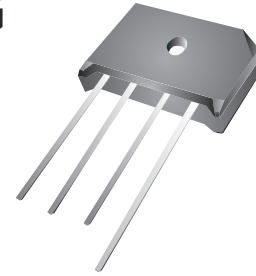


## KBU25005-G Thru. KBU2510-G

Reverse Voltage: 50 to 1000V

Forward Current: 25.0A

RoHS Device

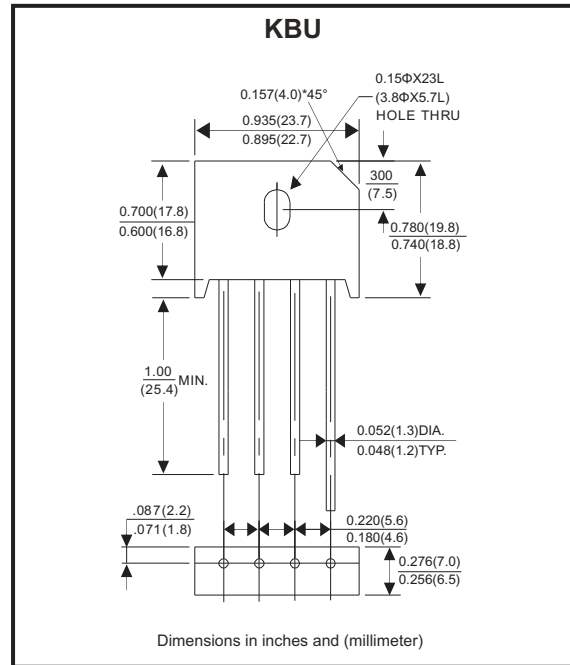


### Features

- Surge overload rating -400 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 25005-G	KBU 2501-G	KBU 2502-G	KBU 2504-G	KBU 2506-G	KBU 2508-G	KBU 2510-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
Max. Average Forward Rectified Current @Tc=100°C (with heatsink note 1) (without heatsink)	$I_{AV}$	25.0 3.6							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	$I_{FSM}$	400							A
Maximum Forward Voltage at 12.5A DC	$V_F$	1.1							V
Max. DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C @Tj=125°C	$I_R$	10.0 500							μA
Operating Temperature Range	$T_J$	-55 to +150							°C
Storage Temperature Range	$T_{STG}$	-55 to +150							°C

Notes:  
 1. Device mounted on 100mm\*100mm\*1.6mm Cu plate heatsink.

## Rating and Characteristics Curves (KBU25005-G Thru. KBU2510-G)

Fig.1 - Derating Curve Output Rectified Current

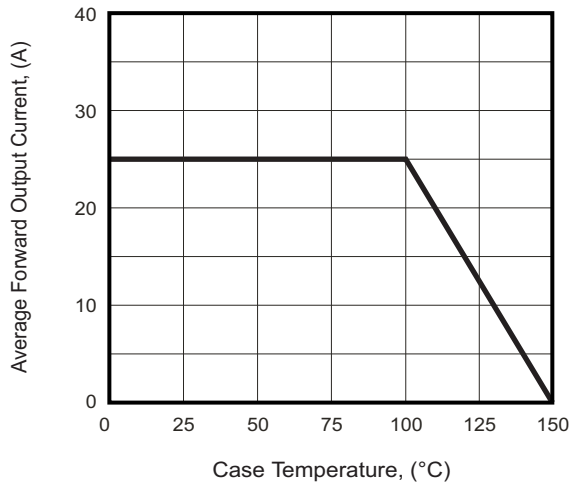


Fig.2 - Typical Forward Characteristics

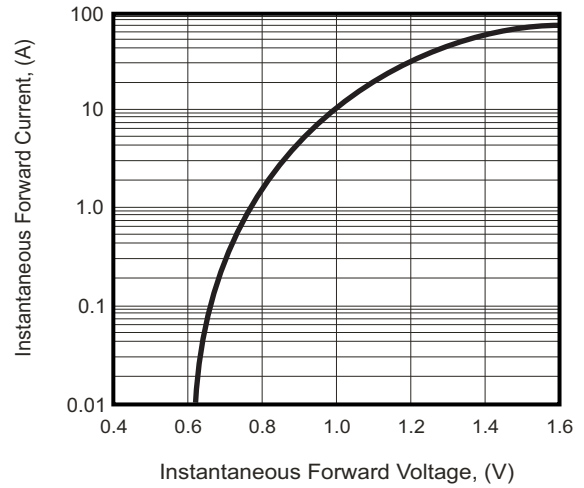


Fig.3 - Max. Forward Surge Current

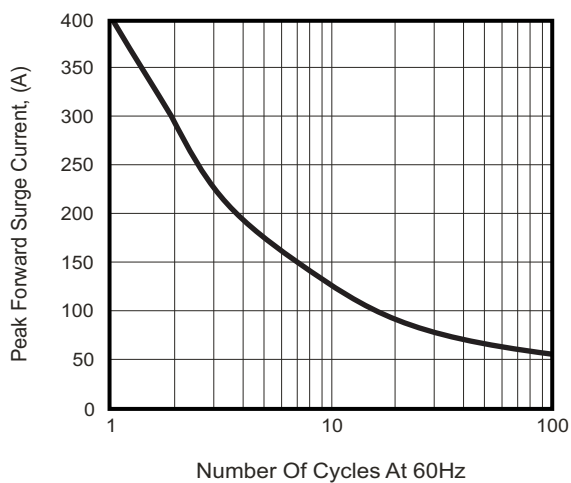
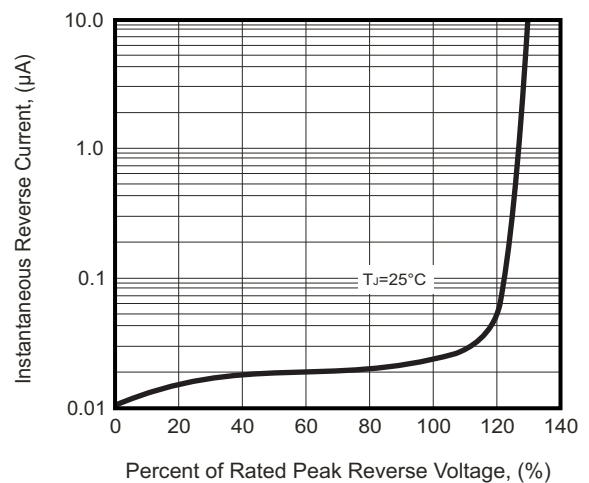
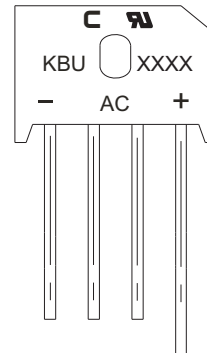


Fig.4 - Typical Reverse Characteristics



## Marking Code

Part Number	Marking code
KBU25005-G	KBU25005
KBU2501-G	KBU2501
KBU2502-G	KBU2502
KBU2504-G	KBU2504
KBU2506-G	KBU2506
KBU2508-G	KBU2508
KBU2510-G	KBU2510



XXXXX / XXXX = Product type marking code

C = Compchip Logo

## Standard Packaging

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

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