



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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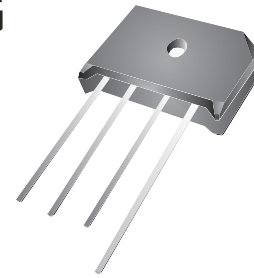


KBU25005-G Thru. KBU2510-G

Reverse Voltage: 50 to 1000V

Forward Current: 25.0A

RoHS Device

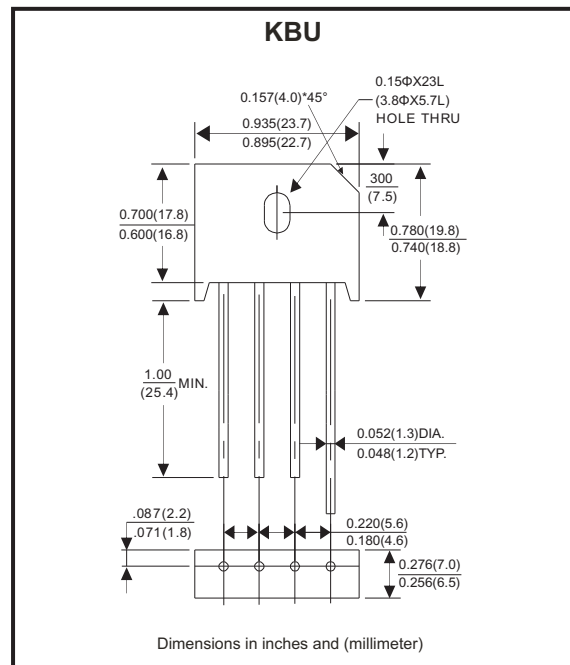


Features

- 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 @ $T_c=100^\circ\text{C}$ (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 @ $T_J=25^\circ\text{C}$ @ $T_J=125^\circ\text{C}$	I_R	10.0 500							μA
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

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

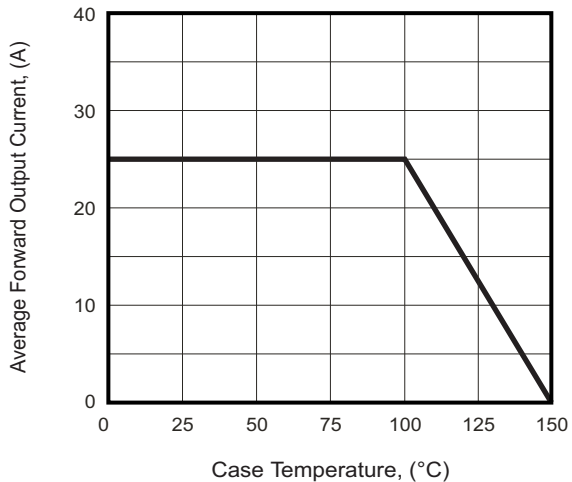


Fig.2 - Typical Forward Characteristics

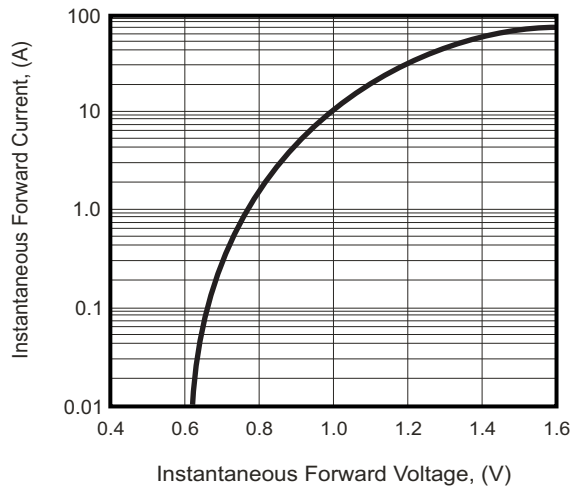


Fig.3 - Max. Forward Surge Current

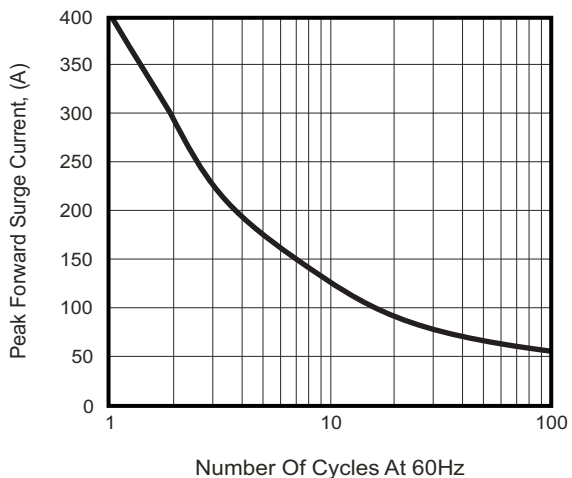
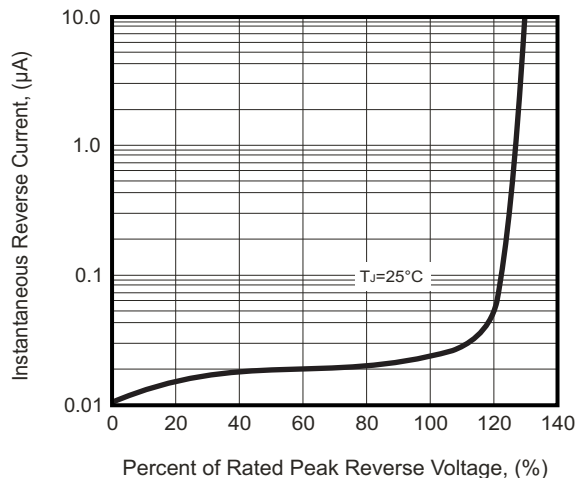
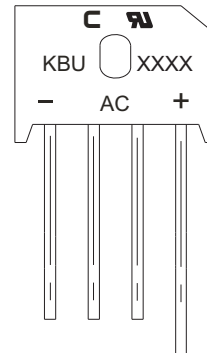


Fig.4 - Typical Reverse Characteristics



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