



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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Silicon Bridge Rectifiers



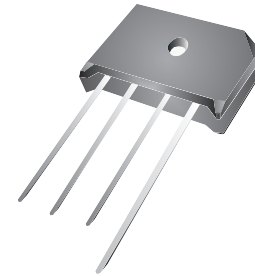
SMD Diodes Specialist

KBU10005-G Thru. KBU1010-G

Reverse Voltage: 50 to 1000V

Forward Current: 10.0A

RoHS Device

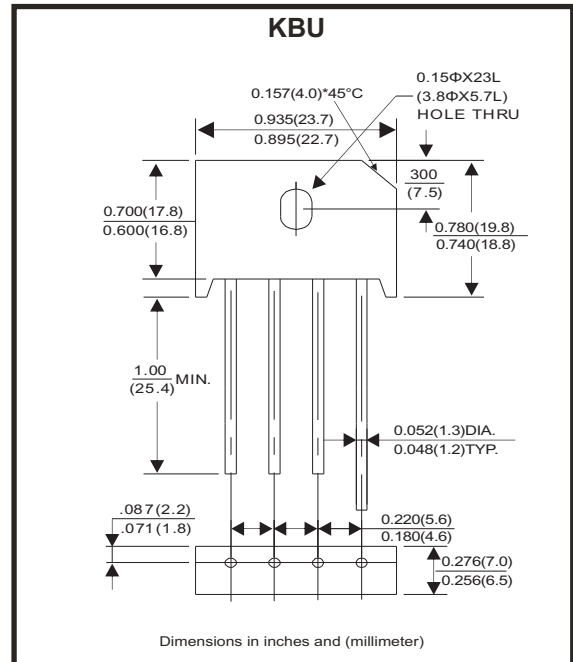


Features

- Surge overload rating - 240 amperes peak.
- Ideal for printed circuit board.

Mechanical Data

- Epoxy: U/L 94-V0 rate flame retardant.
- Case: Molded plastic, KBU
- Mounting position: Any
- Weight: 7.40grams



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 10005-G	KBU 1001-G	KBU 1002-G	KBU 1004-G	KBU 1006-G	KBU 1008-G	KBU 1010-G	Unit	
Maximum Reverse Peak Repetitive Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Bridge Input 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 (With heatsink Note2), Rectified Current @ $T_c=100^{\circ}C$ (without hestsink)	I_{AV}					10.0				A
						3.0				
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I_{FSM}					240				A
Maximum Forward Voltage at 5.0A	V_F					1.0				V
Maximum Reverse Current @ $T_J=25^{\circ}C$ At Rate DC Blocking Voltage @ $T_J=125^{\circ}C$	I_R					10.0				μA
						500				
Operating Temperature Range	T_J					-55 to +125				$^{\circ}C$
Storage Temperature Range	T_{STG}					-55 to +150				$^{\circ}C$

Notes:

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

Rating and Characteristics Curves (KBU10005-G Thru. KBU1010-G)

Fig.1- Derating Curve Output Rectified Current

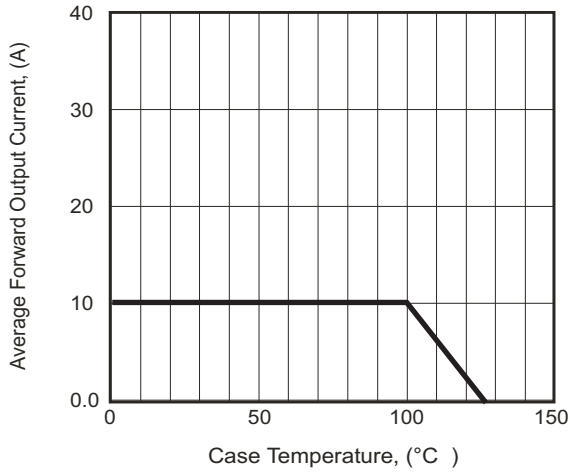


Fig.2- Typical Forward Characteristics

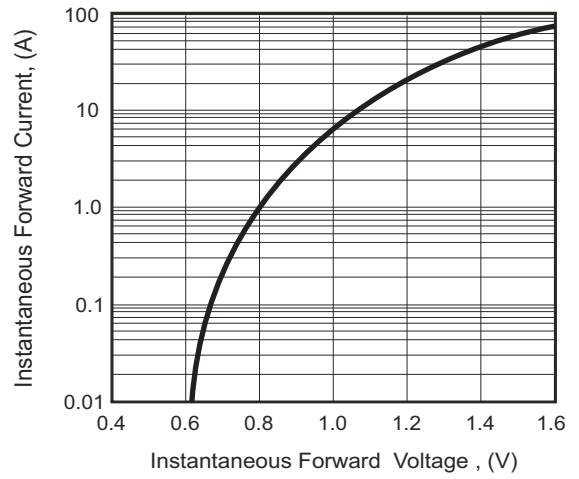


Fig.3- Maximum Forward Surge Current

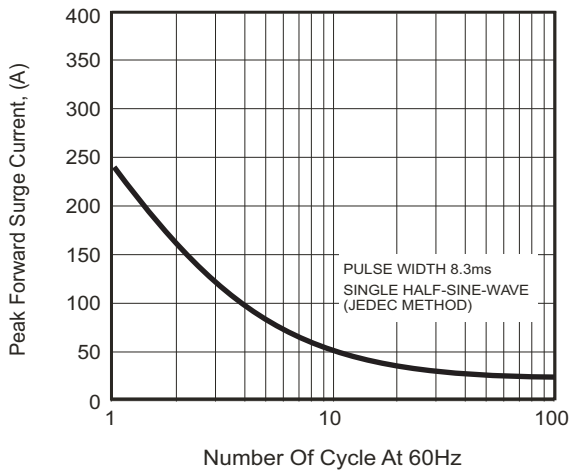
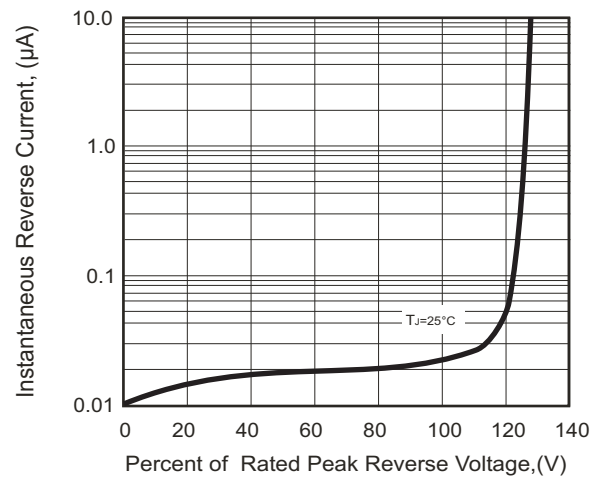
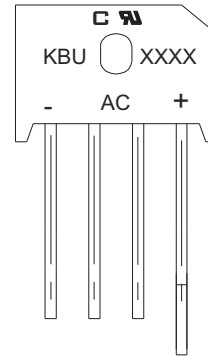


Fig.4- Typical Reverse Characteristics



Marking Code

Part Number	Marking code
KBU10005-G	KBU10005
KBU1001-G	KBU1001
KBU1002-G	KBU1002
KBU1004-G	KBU1004
KBU1006-G	KBU1006
KBU1008-G	KBU1008
KBU1010-G	KBU1010



XXXX / XXXXX = Product type marking code
 C = Compchip Logo

Standard Package

BULK PACK

Case Type	BOX	INNER BOX SIZE	CARTON SIZE	CARTON
	(EA)	(mm)	(mm)	(EA)
KBU	400	230*230*49	485*240*172	2400