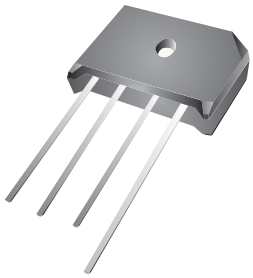
THE DATASHEET OF

KBU1010-G

Silicon Bridge Rectifiers

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.

-UL recognized file # E349301

Mechanical Data

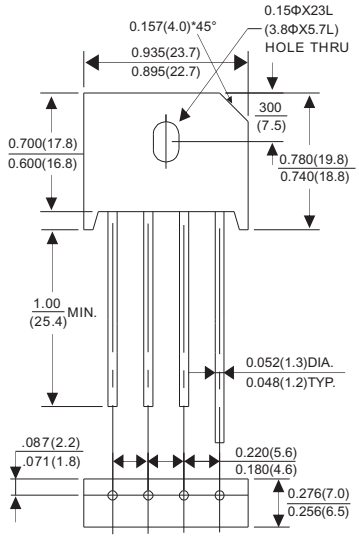
-Epoxy: UL 94V-0 rate flame retardant.

-Case: Molded plastic, KBU

-Mounting position: Any.

-Weight: 7.40 grams (approx.).

KBU



Dimensions in inches and (millimeter)

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 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 (with heatsink note 1) Rectified Current @Tc=100°C (without heatsink)	$I_{(AV)}$	10.0 3.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I_{FSM}	240							A
Maximum Forward Voltage at 5.0A DC	V_F	1.0							V
Max. DC Reverse Current @T_J=25°C at Rated DC Blocking Voltage @T_J=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 (KBU10005-G Thru. KBU1010-G)

Fig.1 - Derating Curve Output Rectified Current

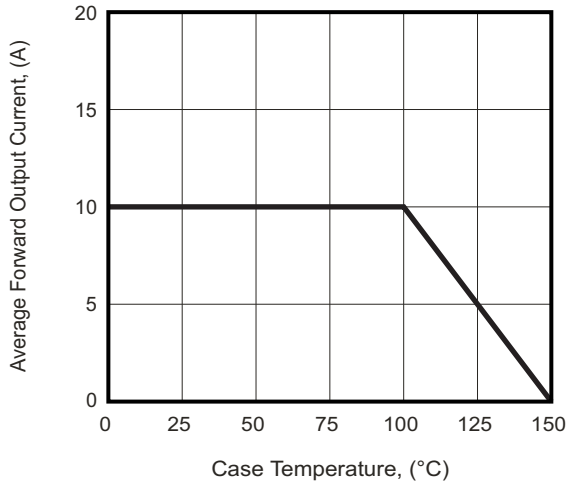


Fig.2 - Typical Forward Characteristics

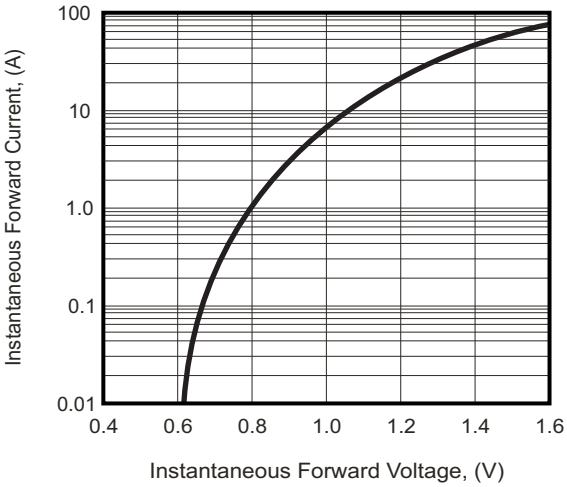


Fig.3 - Max. Forward Surge Current

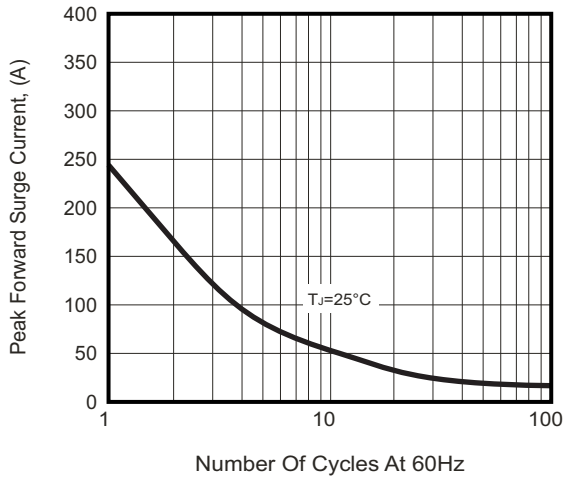
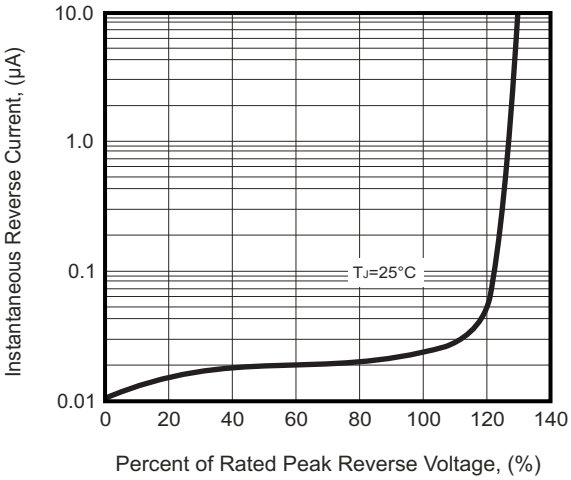
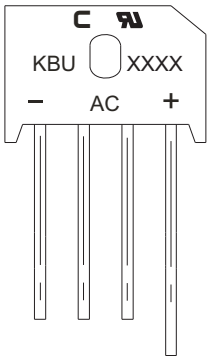


Fig.4 - Typical Reverse Characteristics



Marking Code

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



XXXXX / XXXX = Product type marking code

⊂ = Compchip Logo

Standard Packaging

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

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- Shortage Management
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