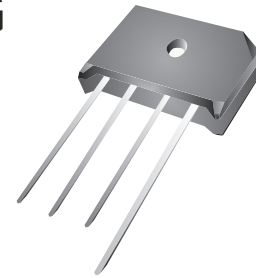


KBU25005-G Thru. KBU2510-G

Reverse Voltage: 50 to 1000V

Forward Current: 25.0A

RoHS Device

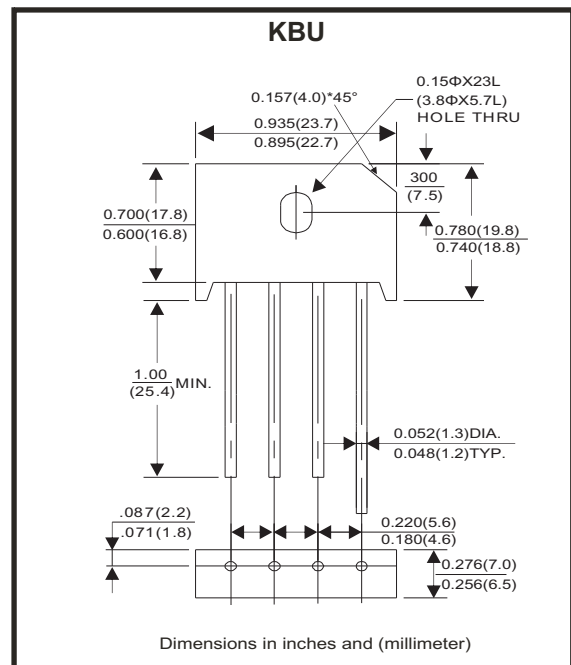


Features

- Surge overload rating - 400 amperes peak.
- Ideal for printed circuit board.
- Plastic material has U/L flammability classification 94V-0

Mechanical Data

- 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 25005-G	KBU 2501-G	KBU 2502-G	KBU 2504-G	KBU 2506-G	KBU 2508-G	KBU 2510-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 Note1) Rectified Current @ $T_c=100^{\circ}C$ (without hestsink)	I_{AV}	25.0 3.6							A
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I_{FSM}	400							A
Maximum Forward Voltage at 12.5A DC	V_F	1.1							V
Maximum Reverse Current @ $T_J=25^{\circ}C$ At Rate DC Blocking Voltage @ $T_J=125^{\circ}C$	I_R	10.0 500							μA
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 (KBU25005-G Thru. KBU2510-G)

Fig.1 - Derating Curve Output Rectified Current

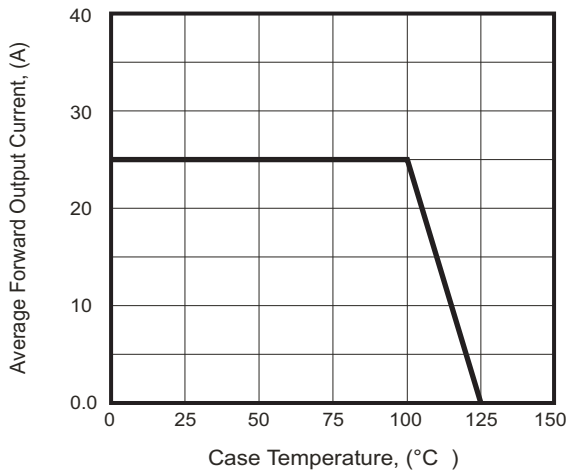


Fig.2 - Typical Forward Characteristics

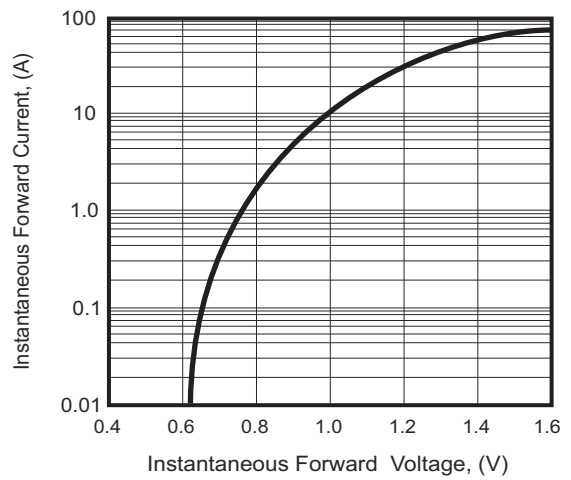


Fig.3 - Maximum Forward Surge Current

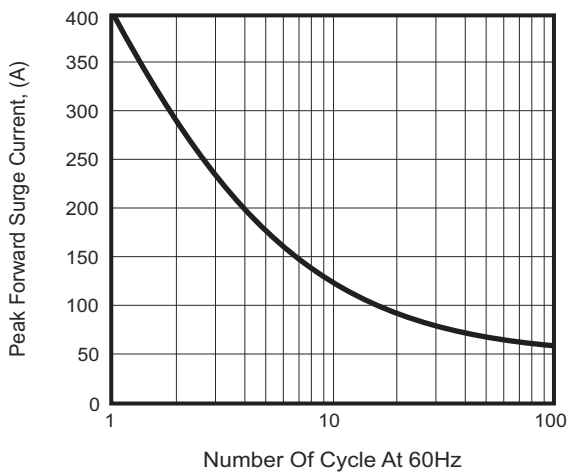
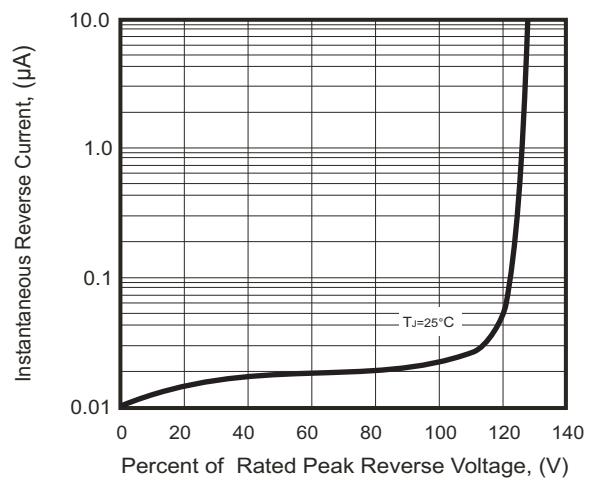
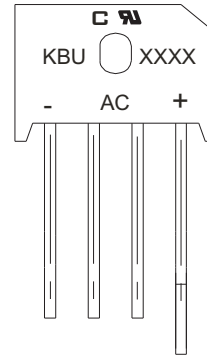


Fig.4 - Typical Reverse Characteristics



Marking Code

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



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

Standard Packaging

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