

KBU35005 THRU KBU3510

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 35 Amperes

Features

- Low forward voltage drop
- Ideal for printed circuit board
- High surge forward current capability
- •Meet UL flammability classification 94V-0

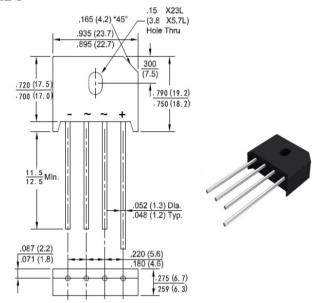
Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Applications

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.

KBU



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 ℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Unit
		35005	3501	3502	3504	3506	3508	3510	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (with heatsink Note 1)		35.0							А
@ Tc=100℃ (without heatsink)	I(AV) 4.2								
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	Irou	400							Α
Superimposed on Rated Load (JEDEC Method)	IFSM								
I ² t Rating for Fusing (t<8.3mS)	l ² t	664.0							A ² s
Peak Forward Voltage per Diode at 17.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated @TJ=25°C	lo.	IR 10 500							μΑ
DC Blocking Voltage per Diode @Tյ=125℃	IK								
Operating Junction Temperature Range	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to+150							$^{\circ}$

Note: Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

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Fig. 1 - Forward Current Derating Curve

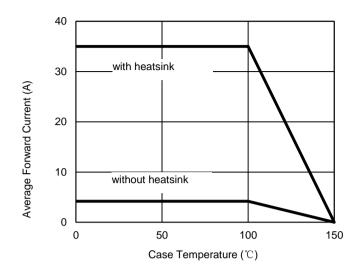


Fig. 2 - Maximum Non-Repetitive Surge Current

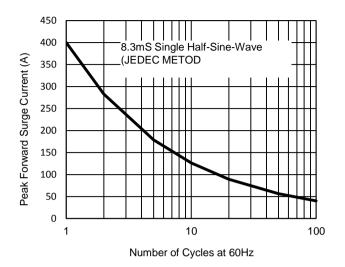


Fig. 3 - Typical Reverse Characteristics

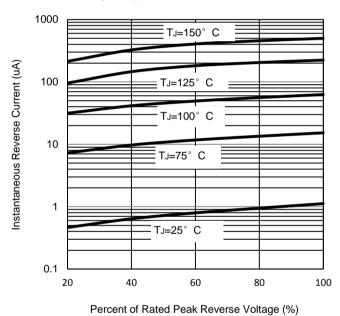
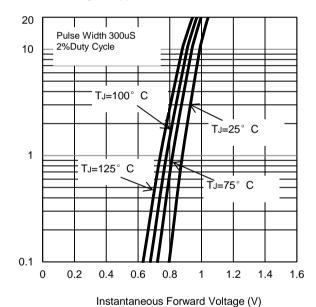


Fig. 4 - Typical Forward Characteristics



Instantaneous Forward Current (A)