



KBU15005 THRU KBU1510

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000V Forward Current - 15A

Features

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

Applications

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

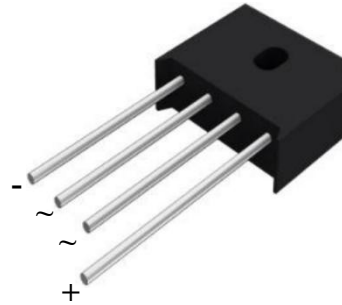
Maximum Ratings and Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20 %)

Parameter		Symbol	KBU 15005	KBU 1501	KBU 1502	KBU 1504	KBU 1506	KBU 1508	KBU 1510	Unit
Maximum Repetitive 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
Maximum Average Forward Rectified Current @T _C =100°C	with heatsink ⁽¹⁾	I _(AV)	15.0						A	
	without heatsink		3.2							
Peak Forward Surge Current,8.3ms Single Half Sine-wave, Superimposed on Rated Load (JEDEC method)		I _{FSM}	250						A	
I ² t Rating for Fusing(t<8.3mS)		I ² t	259.4						A ² S	
Peak Forward Voltage per Diode at 7.5A DC		V _F	1.0						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage per Diode	T _J =25°C	I _R	10						μA	
	T _J =125°C		500							
Operating Junction Temperature Range		T _J	-55~+150						°C	
Storage Temperature Range		T _{STG}	-55~+150						°C	

Notes: (1). Measured at 1.0MHz and applied reverse voltage of 4.0V DC

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RoHS
COMPLIANT



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Typical Characteristics

Fig. 1 - Forward Current Derating Curve

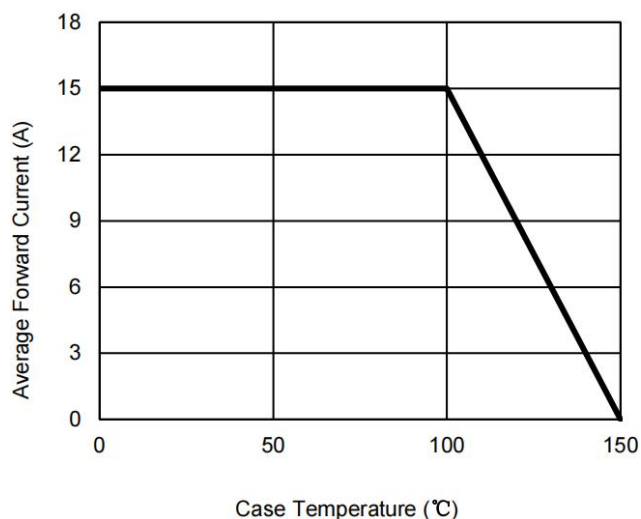


Fig. 2 - Maximum Non-Repetitive Surge Current

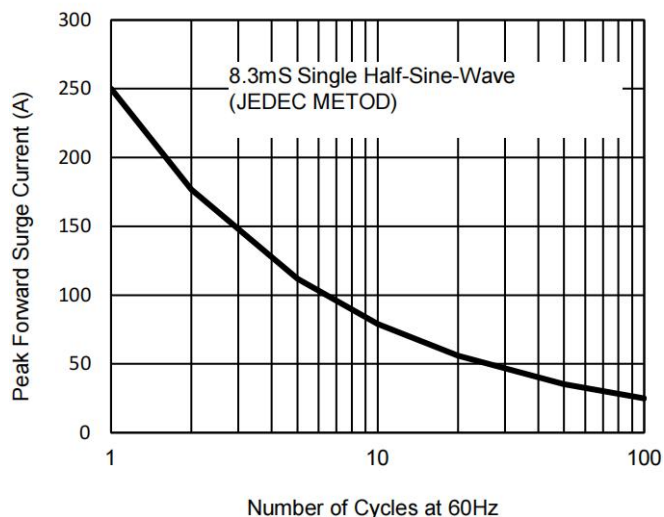


Fig. 3 - Typical Reverse Characteristics

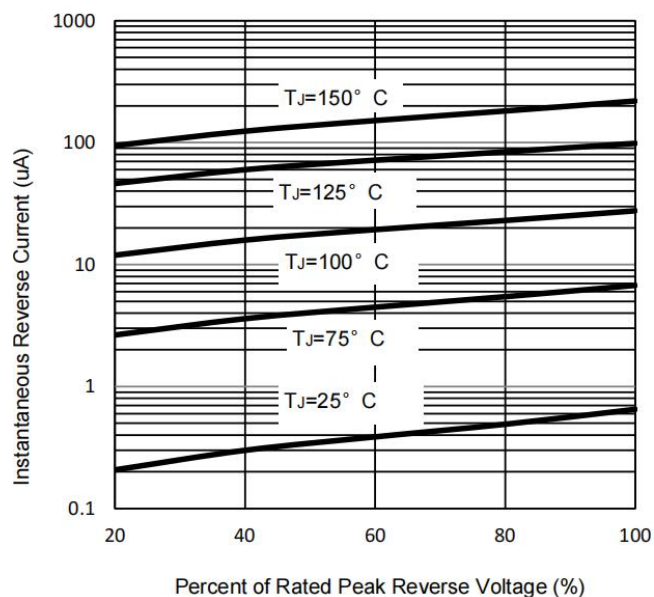
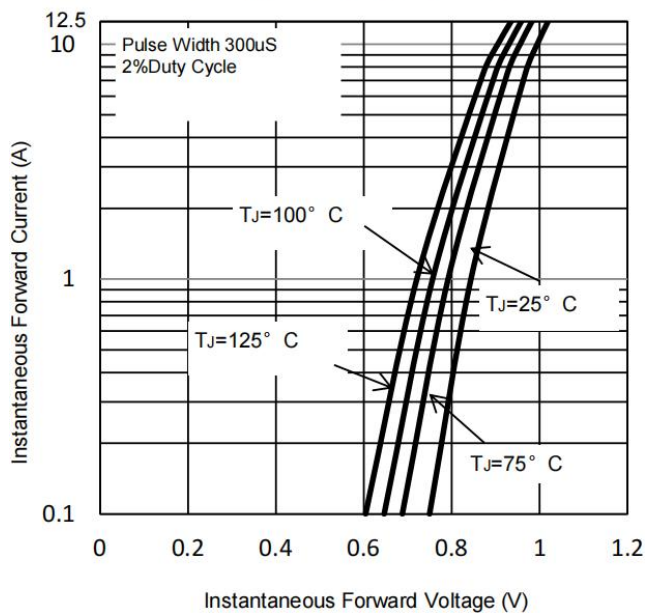


Fig. 4 - Typical Forward Characteristics

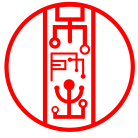




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Dimensions in Inches (Millimeters)





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