

KBP3005G THRU KBP310G

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Amperes

Features

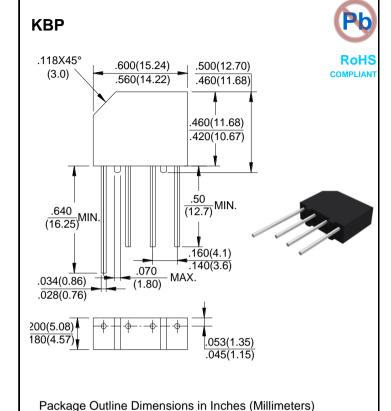
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- •Meet UL flammability classification 94V-0

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.



Maximum Ratings and Electrical Characteristics

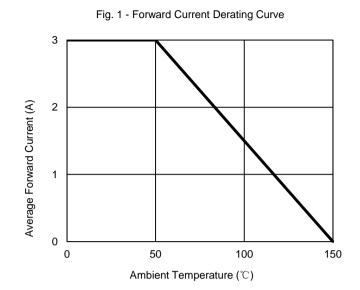
Single phase, half wave, 60Hz, resistive or inductive load.

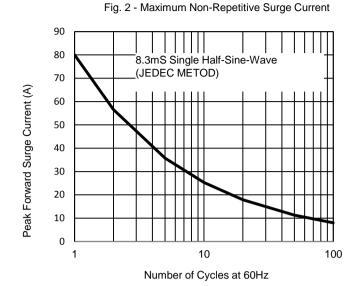
For capacitive load, derate current by 20%.

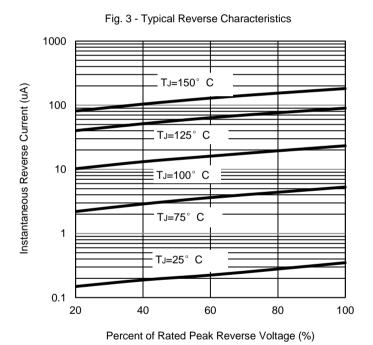
Characteristics	Symbol	KBP	KBP	KBP	KBP	KBP	KBP	KBP	Unit
	Cymbol	3005G	301G	302G	304G	306G	308G	310G	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=50 ℃ (Note1)	I(AV)	3.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM 80							А	
Superimposed on Rated Load (JEDEC Method)	IF5M 00								
I ² t Rating for Fusing (t<8.3mS)	l ² t	26.6							A ² s
Peak Forward Voltage per Diode at3A DC	VF	1.1							V
Maximum DC Reverse Current at Rated @TJ=25℃	lR	10.0 1000							μA
DC Blocking Voltage per Diode @TJ=100℃	IK								
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

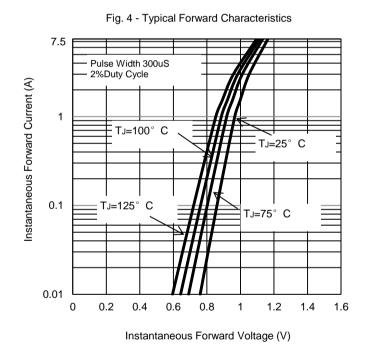
KBP310G-U/B-00/99-00/01 Rev. 11, 20-Dec-2019













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