

KBP3005 THRU KBP310

GENERAL PURPOSE BRIDGE RECTIFIER Reverse Voltage:50 to 1000Volts Forward Current:3.0 Amps

FEATURES

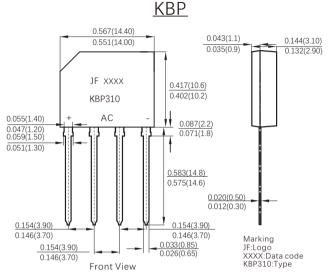
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · Glass passivated chip junction
- · High current capability
- · Low forward voltage drop
- · High temperature soldering guaranteed:260°C/10 seconds at terminals
- · Component in accordance to RoHS 2015/863/EU

MECHANICAL DATA

- · Case: KBP molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Anv

TYPICAL APPLICATIONS

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

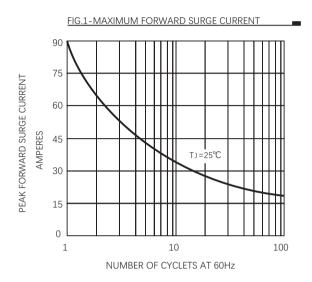
(Rating at 25°C ambient temperature unless otherwise specified. Single phase ,half wave , resistive or inductive load. For capacitive load,derate current by 20%.)

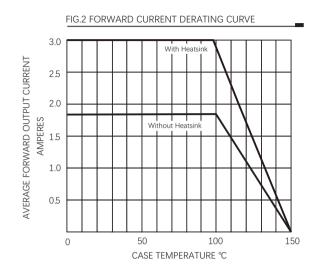
Parameters		Symbol	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310	Units
Maximum Reverse Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (See Fig 2)		I _{F(AV)}	3.0							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load		I _{FSM}	90							Amps
Rating for Fusing (t =8.3ms)		l ² t	33.62							A ² S
Maximum Instantaneous Forward Voltage at 1.5A DC		V _F	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T₁=25°C	l _R	5.0							μΑ
	T₁=125℃		100							μΑ
Typical Thermal Resistance Junction And Ambient (Note 2) Junction And Case		$R_{\scriptscriptstyle \theta JA} \ R_{\scriptscriptstyle \theta JC}$	45 5							°C/W
Typical Junction capacitance (Note 1)		C,	27							pF
Operating and Storage Temperature Range		T,, T _{stg}	-55 to +150							°C

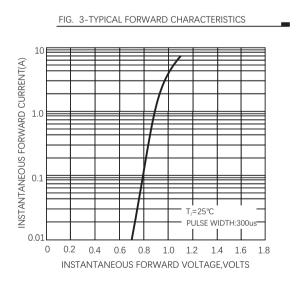
NOTE: 1.Measured at 1MHz and applied reverse voltage of 4.0 Volts. 2 Device mounted on 30mm x 30mm x 1mm Cu plate heatsink

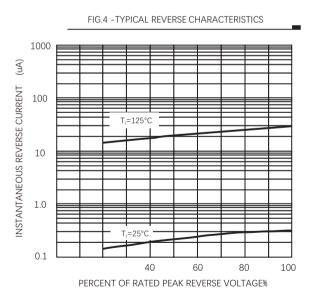


RATINGS AND CHARACTERISTIC CURVES KBP3005 THRU KBP310











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