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# **KBP2005 THRU KBP210**

## Single Phase 2.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 2.0 Amperes

### **FEATURES**

◆Ideal for printed circuit board

◆Reliable low cost construction technique results in inexpensive product

◆High temperature soldering guaranteed:

 $250^{\circ}$ C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs., ( 2.3 kg ) tension

◆UL Recognized File number: E347214

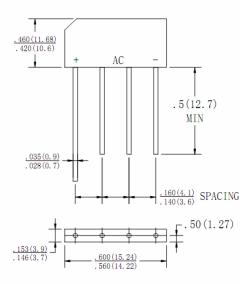
### **MECHANICAL DATA**

◆Case: Molded plastic

◆Lead: solder plated

◆Polarity: As marked

# KBP



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

		КВР	КВР	КВР	КВР	КВР	КВР	КВР	UNITS
		2005	201	202	204	206	208	210	
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 ℃	I(AV)	2.0							Α
Peak Forward Surge Current, 8.3 ms Single									
Half Sine-wave Superimposed on Rated	İFSM	60							Α
Load (JEDEC method )									
Maximum Instantaneous Forward Voltage @ 3.14A	VF	1.2							V
Maximum DC Reverse Current @ Ta=25℃	lr	10							μА
rated DC blocking voltage per leg T <sub>A</sub> = 125 °C	IK	500							
Typical Thermal Resistance (Note)	Røja	25							°C/W
	RøJL	8.0							
Operating Temperature Range	TJ	-55 to +150						${\mathbb C}$	
Storage Temperature Range	Tstg	-55 to +150							${\mathbb C}$

**NOTE:** Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.47×0.47" (12×12mm) Copper Pads

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### **RATING AND CHARACTERISTIC CURVES KBP2005 THRU KBP210**

