

# **KBP4005 THRU KBP410**

# **BRIDGE RECTIFIERS**

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州市钜兴电子有限公

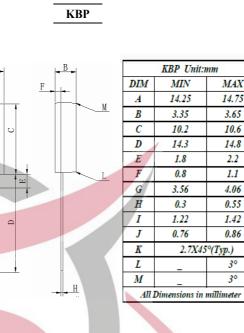
GUANGZHOU JUXING ELECTRONICS CO

### **FEATURES**

- · UL Recognized File # E469616
- · Reliable low cost construction utilizing molded plastic technique
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

## **MECHANICAL DATA**

Case: Molded plastic, KBP Epoxy: UL 94V-O rate flame retardant Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed Mounting position: Any Weight: 0.012ounce, 0.33gram



# Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, 60H<sub>Z</sub>, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	KBP4005	KBP401	KBP402	KBP404	KBP406	KBP408	KBP410	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T <sub>A</sub> =50	I <sub>(AV)</sub>				4.0				Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>		с I.	EC	80	3 0	NI	0	Amp
Maximum Forward Voltage at 4.0A DC and 25	V <sub>F</sub>	1.1							Volts
Maximum Reverse Currentat T_A=25at Rated DC Blocking VoltageT_A=100	I <sub>R</sub>	10.0 500							uAmp
Typical Junction Capacitance (Note 1)	CJ	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30							/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	11							/ <b>W</b>
Operating and Storage Temperature Range	$T_{\rm J}$ , $Tstg$	-55 to +150							

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#### NOTES:

1- Measured at 1 MH<sub>z</sub> and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.



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### Characteristic Curves (T<sub>A</sub>=25 °C unless otherwise noted)

