

## **KBP2005 THRU KBP210**

### SINGLE PHASE 2.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

### **Features**

· Glass passivated die construction

· Low forward voltage drop

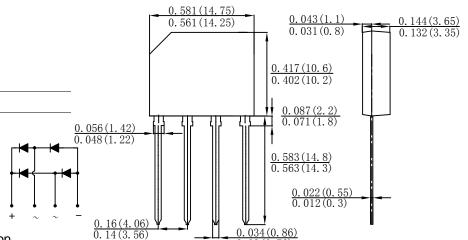
High current capability

High surge current capability
Plastic material-UL flammability 94V-0

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### **Mechanical Data**

- · Case: KBP, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- · Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- · Lead Free: For RoHS / Lead Free Version



Dimensions in inches and (millimeters)

**KBP** 

## **Maximum Ratings and Electrical Characteristics**

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%,

TYPE NUMBER	SYMBOL	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	V
	VRWM								
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @Tc=100°C	lo	2.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	45						А	
I²t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	14.94						A <sup>2</sup> S	
Forward Voltage per element @IF=2.0A	VFM	1.1							V
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	lR	5.0 200							uA
Typical Junction Capacitance (Note2)	Cj	15							pF
Typical Thermal Resistance	Reja	25							°C/W
	Rejl	8							
Operating and Storage Temperature Range	T <sub>J</sub> ,TsTG	-55to+150							$^{\circ}$

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

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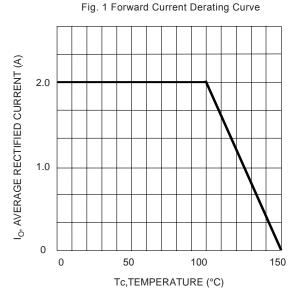


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

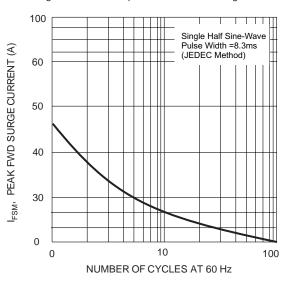
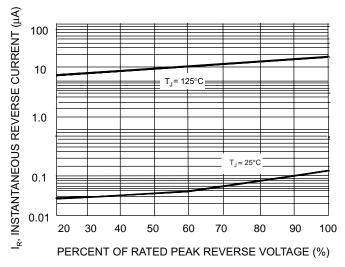


Fig. 5 T ypical Reverse Characteristics (per element)



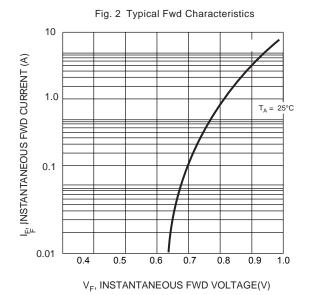
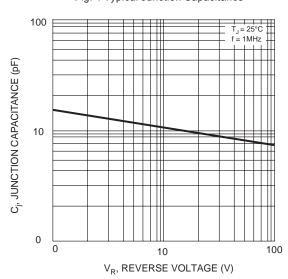


Fig. 4 Typical Junction Capacitance



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