## **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°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

#### 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%

		KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	КВР 210	UNITS
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 = $50^{\circ}$ C	l(AV)	2.0							А
Peak Forward Surge Current, 8.3 ms Single									
Half Sine-wave Superimposed on Rated	IFSM	60						А	
Load (JEDEC method )									
Maximum Instantaneous Forward Voltage @ 3.14A	VF	1.2						V	
Maximum DC Reverse Current @ Ta=25°C	10 IR							μA	
rated DC blocking voltage per leg TA = 125 $^\circ\!\!{\rm C}$	IR	500							
Typical Thermal Resistance (Note)	Reja	25							°C/W
	Rejl	8.0							
Operating Temperature Range	TJ	-55 to +150						°C	
Storage Temperature Range	Тѕтс	-55 to +150						°C	

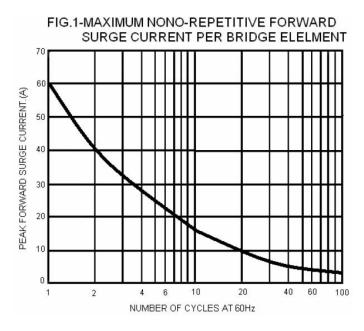
Copper Pads

mal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.47imes0.47" (12imes12mn

Dimensions in inches and (millimeters)

# **KBP2005 THRU KBP210**

### RATING AND CHARACTERISTIC CURVES KBP2005 THRU KBP210



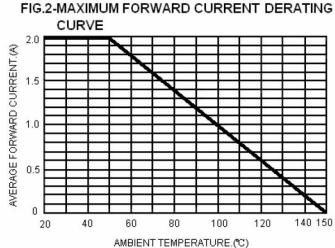


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT 10.0 INSTANTANEOYS FORWARD CURRENT.(A) 1.0 0.1 . IJ=125℃ PULSE WIDTH-300uS 1% DUTY CYCLE 0.01 0.8 0.9 1.0 1.1 1.2 1.3 1.4 0.6 0.7 INSTANTANEOUS FORWARD VOLTAGE.(V)

FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

