## **KBP2005** T **KBP210**

#### SINGLE-PHASE BRIDGE RECTIFIER

**VOLTAGE RANGE** 50 to 1000 Volts **CURRENT** 2.0 Ampere

#### **FEATURES**

High forward surge current capability. Ideal for printed circuit board. High temperature soldering guaranteed: 260°C/10 second, 0.375" (9.5mm) lead length at 5 lbs. (2.3kg) tension.

#### **MECHANICAL DATA**

Case: Transfer molded plastic.

Terminal: Lead solderable per MIL - STD - 202E

method 208℃.

Polarity: Polarity symbols marked on case

Mounting position: Any.

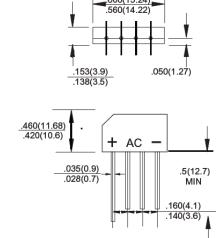
Weight: 0.069 ounce, 1.95 gram.

#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25℃ ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

#### **KBP**



**Dimensions in inches and (millimeters)** 

For capacitive load derate current by 20%										
PARAMETER		SYMBOL	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	UNIT
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	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 Output Current, at $T_A = 50^{\circ}C$ (Note 2)		I <sub>(AV)</sub>	2.0							Amps
Peak Forward Surge Current 8.3ms single half										
sine-wave superimposed on rated load (JEDE		IFSM	I <sub>FSM</sub> 50							Amps
method)										
Rating for Fusing (t<8.3ms)		l <sup>2</sup> t	10							A <sup>2</sup> s
Maximum Instantaneous Forward Voltage Drop		V <sub>F</sub>	1.1							Volts
per bridge element at 2.0A										
Maximum DC Reverse Current at rated DC blocking voltage per element	T <sub>A</sub> = 25°C	- I <sub>R</sub>	5							uA
	Ta= 100°C		0.5							mA
Typical Junction Capacitance (Note 1)		Cj	20							pF
Typical Thermal Resistance (Note 2)		RөJA	28							°C/W
Operating Temperature Range		TJ	-65 to +150							- °C
Storage Temperature Range		Тѕтс	-65 to +150							
1- Measured at 1 MHz and applied reve	rse voltage of 4 V.	•	•							•

- Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.5 X 0.5" (13 X 13 mm) copper pads.

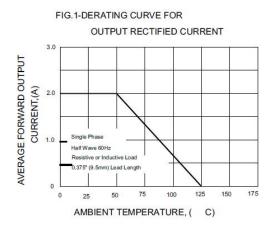
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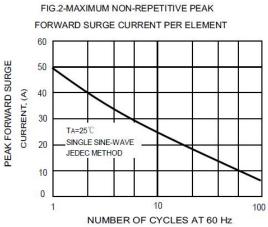
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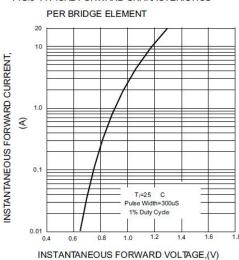
# KBP2005 THRU KBP210

#### **RATINGS AND CHARACTERISTIC CURVES**

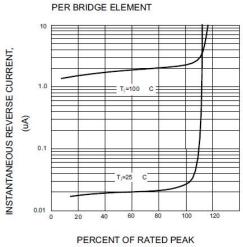




#### FIG.3-TYPICAL FORWARD CHARACTERISTICS

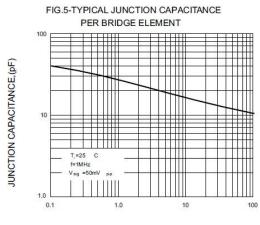






PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

2



REVRESE VOLTAGE,(V)

Note: Specifications are subject to change without notice.

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