

# KBP2005G thru KBP210G

**KBP** 

#### **GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 2.0 Amperes

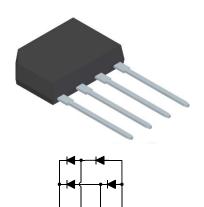
#### **FEATURES**

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0

#### **MECHANICAL DATA**

Polarity : As marked on bodyWeight : 0.05 ounces, 1.52 grams

• Mounting position : Any



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

Ratings at 25°C ambient temperature unless otherwise specified.

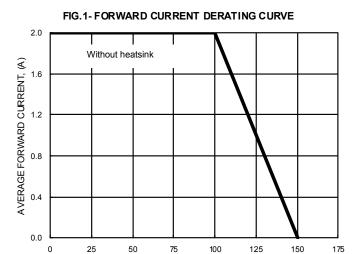
CHARACTERISTICS	SYMBOL	KBP 2005G	KBP 201G	KBP 202G	KBP 204G	KBP 206G	KBP 208G	KBP 210G	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	<b>V</b>
Maximum Average Forward Rectified Current @T <sub>C</sub> =100°C	I <sub>(AV)</sub>	2.0				Α			
Peak Forward Surge Current 8.3ms single half sine-wave	I <sub>FSM</sub>	60			А				
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	1.1				٧			
Maximum DC Reverse Current at rated @Tj=25°C Blocking Voltage @Tj=125°C	I <sub>R</sub>	5.0 500				uA			
2 I t Rating for fusing (3ms≦t ≦8.3ms)	2 I t	14.94			A <sup>2</sup> S				
Typical Junction Capacitance per element (Note 1)	CJ	25			pF				
	Rejc				10				
Typical thermal resistance (Note 2)	R⊝ <sub>JL</sub>	18						°C/W	
	R⊝ <sub>JA</sub>	40							
Operation Temperature Range	TJ	-55 to 150				°C			
Storage Temperature Range	T <sub>STG</sub>	-55 to 150				°C			

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

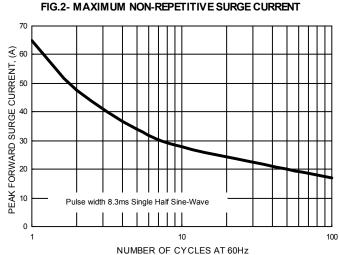
 $\begin{tabular}{ll} \end{tabular} \begin{tabular}{ll} \end{tabular} \beg$ 

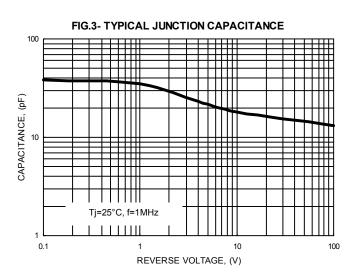
Version: 01 1 of 3

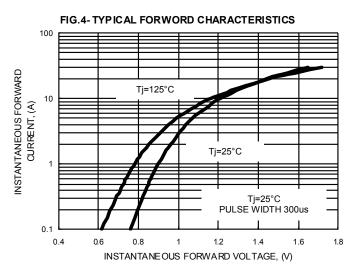


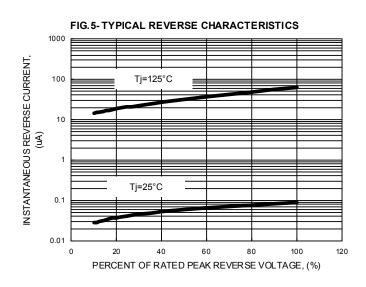


CASE TEMAERATURE, (°C)





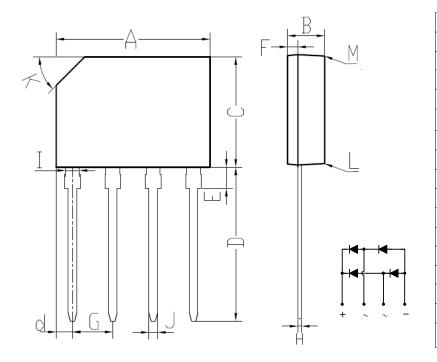




Version: 01 2 of 3



### **KBP Package Outline Dimensions**



КВР						
DIM.	MIN.	MAX.				
Α	14.20	14.70				
В	3.30	3.60				
С	10.20	10.60				
D	13.80	14.40				
d	1.40	1.70				
Е	1.80	2.20				
F	0.80	1.10				
G	3.71	3.91				
Н	0.35	0.55				
I	1.22	1.42				
J	0.76	0.86				
K	2.7 x 45° (Typ)					
L	#	3°				
М	#	2°				
All Dimensions in millimeter						

## **Important Notice and Disclaimer**

PowSemi reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

PowSemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does PowSemi assume any liability for application assistance or customer product design. PowSemi does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of PowSemi.

PowSemi products are not authorized for use as critical components in life support devices or systems without express written approval of PowSemi.

Version: 01 3 of 3