

# KBP2005G - KBP210G

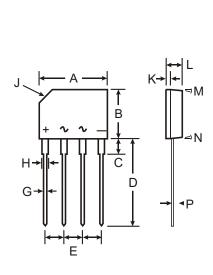
# 2.0A GLASS PASSIVATED BRIDGE RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V<sub>RMS</sub>
- Low Reverse Leakage Current
- Surge Overload Rating to 65A Peak
- Ideal for Printed Circuit Board Applications
- Plastic Material UL Flammability Classification 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

#### **Mechanical Data**

- Case: Molded Plastic
- Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please see Ordering Information, Note 4, on Page 3
- Polarity: Marked on Body
- Approx. Weight: 1.52 grams
- Mounting Position: Any
- Marking: Type Number



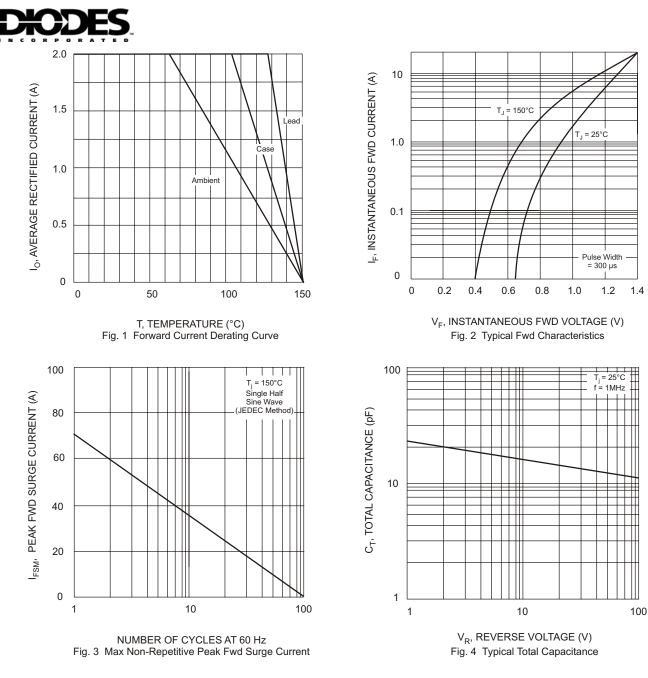
КВР					
Dim	Min	Мах			
Α	14.25	14.75			
В	10.20	10.60			
С	2.29 Typical				
D	14.25	14.73			
E	3.56	4.06			
G	0.76	0.86			
н	1.17	1.42			
J	2.8 X 45° Chamfer				
к	0.80	1.10			
L	3.35	3.65			
М	3° Nominal				
Ν	2° No	2° Nominal			
Р	0.30	0.64			
All Dimensions in mm					

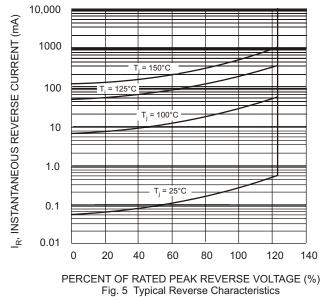
## Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBP 2005G	KBP 201G	KBP 202G	KBP 204G	KBP 206G	KBP 208G	KBP 210G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	v
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_C = 105^{\circ}C$	l <sub>o</sub>	2.0					Α		
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)		65					A		
Forward Voltage per element @ I <sub>F</sub> = 2.0A		1.1					V		
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 125^{\circ}C$	I <sub>RM</sub>	5.0 500					μA		
Typical Total Capacitance per Element (Note 2)		25					pF		
Typical Thermal Resistance (Note 1)		14					°C/W		
Operating and Storage Temperature Range		-65 to +150					°C		

Notes: 1. Thermal resistance from junction to case per element. Unit mounted on 75 x 75 x 1.6mm aluminum plate heat sink. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.







## Ordering Information (Note 3)

Device	Packaging	Shipping		
KBP2005G-7	KBP	35 pieces per Tube		
KBP201G-7	KBP	35 pieces per Tube		
KBP202G-7	KBP	35 pieces per Tube		
KBP204G-7	KBP	35 pieces per Tube		
KBP206G-7	KBP	35 pieces per Tube		
KBP208G-7	KBP	35 pieces per Tube		
KBP210G-7	KBP	35 pieces per Tube		

Notes:

For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.
For Lead Free version (with Lead Free terminal finish) part number, please add "-F" suffix to part number above. Example: KBP206G-7-F.

This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.