

KBP005G - KBP10G

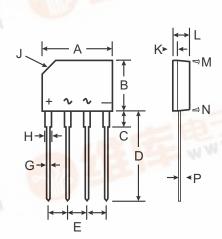
1.5A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 40A Peak
- Ideal for Printed Circuit Board Applications
- UL Listed Under Recognized Component Index, File Number E94661
- Lead Free Finish, RoHS Compliant (Note 2)

Mechanical Data

- Case: KBP
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Finish Matte Tin. Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Marking: Type Number
- Mounting Position: Any
- Approx. Weight: 1.52 grams



KBP						
Dim	Min	Max				
Α	14.25	14.75				
В	10.20	10.60				
С	2.29 Typical					
D	14.25	14.73				
Е	3.56	4.06				
G	0.76	0.86				
Н	1.17	1.42				
J	2.8 X 45° Chamfer					
K	0.80	1.10				
L	3.35	3.65				
M	3° Nominal					
N	2° Nominal					
Р	0.30	0.64				
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics © TA

@ T_A = 25°C unless otherwise specified

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

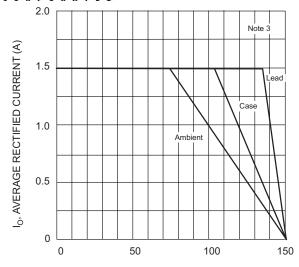
		КВР	КВР	КВР	КВР	KBP	KBP	КВР	
Characteristic		005G	01G	02G	04G	06G	08G	10G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _C = 105°C	lo	1.5				Α			
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}			- 12	40	THE WILL	DISC	co	А
Forward Voltage per element @ I _F = 1.5A	V _{FM}	и 1.1			V				
Peak Reverse Current @Tc = 25°C at Rated DC Blocking Voltage @ Tc = 125°C		5.0 500					μА		
Typical Total Capacitance per (Note 1)		20					pF		
Typical Thermal Resistance, junction to case		18					°C/W		
Operating and Storage Temperature Range	T _j , T _{STG}			-(65 to +15	0			°C

Notes

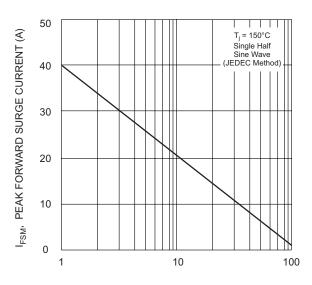
- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 2. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.
- 3. Unit mounted on 300 x 300 x 1.6mm aluminum plate heat sink.



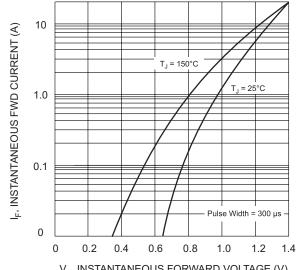




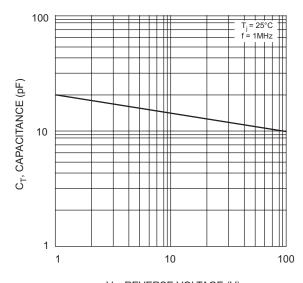
T, TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



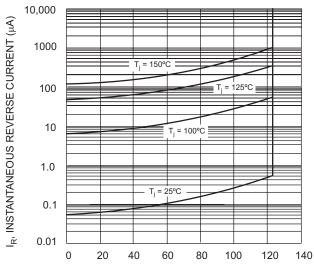
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Forward Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



V_R, REVERSE VOLTAGE (V) Fig. 4 Typical Total Capacitance



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics



Ordering Information (Note 4)

Device	Packaging	Shipping	
KBP005G-7	KBP	35 pieces per Tube	
KBP01G-7	KBP	35 pieces per Tube	
KBP02G-7	KBP	35 pieces per Tube	
KBP04G-7	KBP	35 pieces per Tube	
KBP06G-7	KBP	35 pieces per Tube	
KBP08G-7	KBP	35 pieces per Tube	
KBP10G-7	КВР	35 pieces per Tube	

Notes:

4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

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