

KBP005M – KBP10M

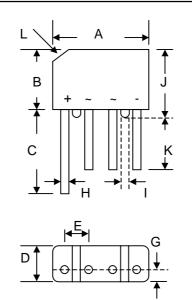
1.5A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



KBP							
Dim	Min	Max					
Α	14.22	15.24					
В	10.67	11.68					
С	15.2	—					
D	4.57	5.08					
Е	3.60	4.10					
G	2.16	2.67					
Н	0.76	0.86					
Ι	1.52	—					
J	11.68	12.7					
к	12.7	—					
L	3.2 x 45° Typical						
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

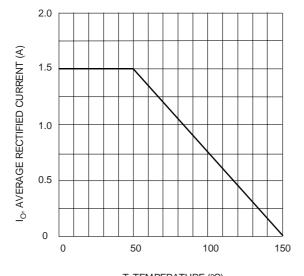
Characteristic	Symbol	KBP 005M	KBP 01M	KBP 02M	KBP 04M	KBP 06M	KBP 08M	KBP 10M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 50^{\circ}C$	lo	1.5					A		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50							A
Forward Voltage (per element) $@I_F = 1.5A$	Vfm	1.1					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IDM	10 500					μA		
Rating for Fusing (t<8.3ms)	l ² t	10							A ² s
Typical Junction Capacitance per element (Note 2)	Cj	15							pF
Typical Thermal Resistance (Note 3)	RθJA	28							K/W
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150							°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

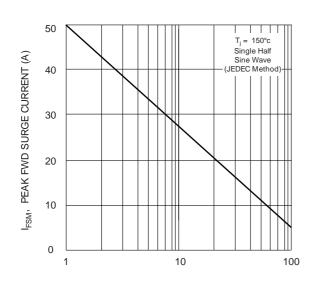
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance junction to ambient mounted on PC board with 12mm² copper pad.









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

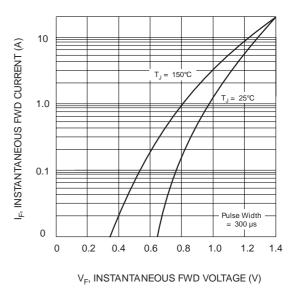
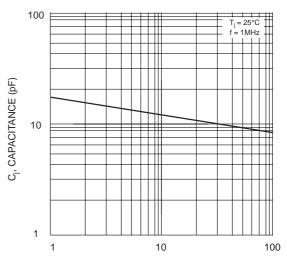


Fig. 2 Typical Fwd Characteristics



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

