

KBP2005 THRU KBP210

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere

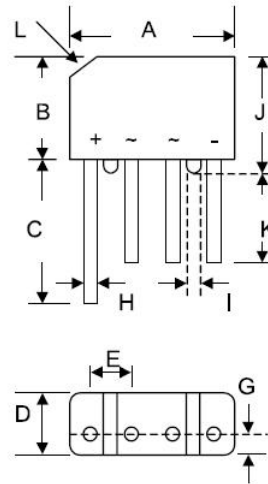
FEATURES

- ◆ Diffused Junction
- ◆ 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



KBP		
Dim	Min	Max
A	14,22	15,24
B	10,67	11,68
C	15,2	—
D	4,57	5,08
E	3,60	4,10
G	2,16	2,67
H	0,76	0,86
I	1,52	—
J	11,68	12,7
K	12,7	—
L	3,2 x 45° Typical	
All Dimensions in mm		

Dimensions in inches and (millimeters)

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%

CHARACTERISTICS	SYMBOL	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}								V
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T _A = 50°C	I _O	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60							A
Forward Voltage (per Element) @ I _F = 2.0A	V _{FM}	1.1							v
Peak Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage @ T _A = 100°C	I _{RM}	10 500							uA
Rating for Fusing (t < 8.3ms)	I ² t	15							A ² s
Typical Junction Capacitance per element (Note 2)	C _j	25							pF
Typical Thermal Resistance (Note 3)	R _{θJA}	30							K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +165							°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.

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RATING AND CHARACTERISTIC CURVES

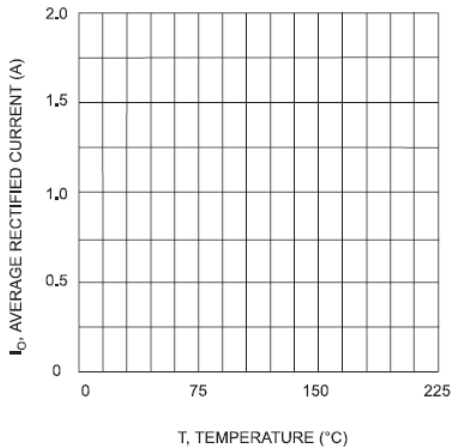


Fig. 1 Forward Current Derating Curve

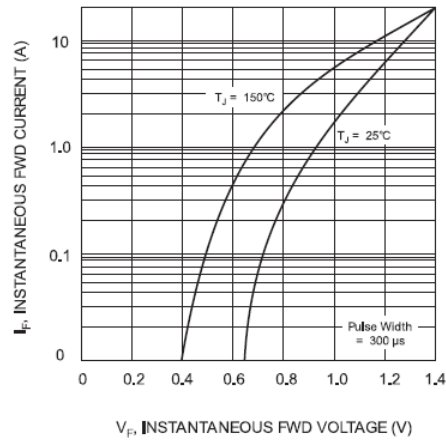


Fig. 2 Typical Fwd Characteristics

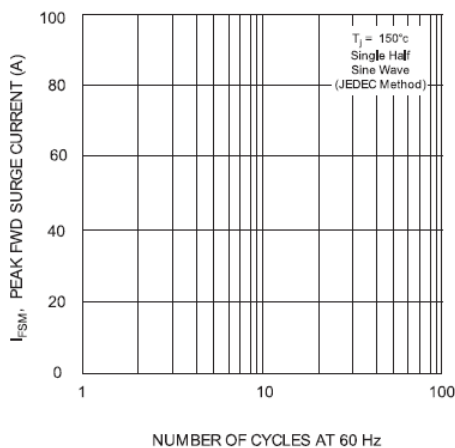


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

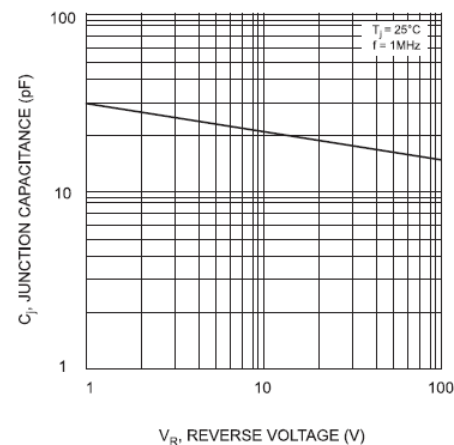


Fig. 4 Typical Junction Capacitance

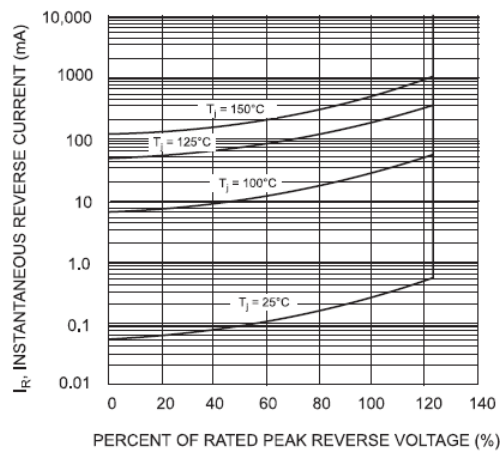


Fig. 5 Typical Reverse Characteristics

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.