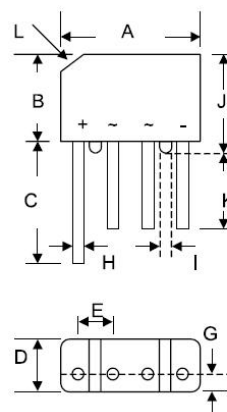


Kingtronics®**KBP2005 THRU
KBP210****GLASS PASSIVATED BRIDGE RECTIFIERS****REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere****FEATURES**

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** @ $T_A = 25^\circ\text{C}$ 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}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
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) @ $T_A = 50^\circ\text{C}$	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) @ $I_F = 2.0\text{A}$	V_{FM}	1.1							V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	10 500							μA
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	15							A^2s
Typical Junction Capacitance per element (Note 2)	C_j	25							pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	30							K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +165							$^\circ\text{C}$

Note:

- Leads maintained at ambient temperature at a distance of 9.5mm from the case.
- Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- Thermal resistance junction to ambient mounted on PC board with 12mm^2 copper pad.

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KBP2005 THRU KBP210

RATINGS AND CHARACTERISTIC CURVES

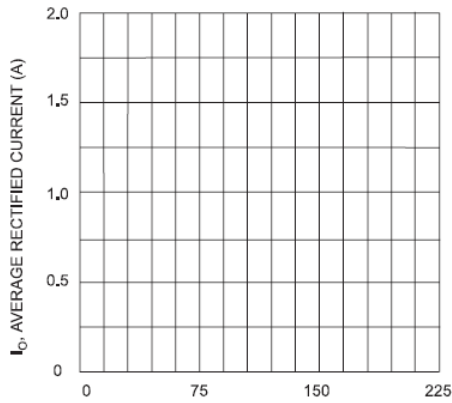


Fig. 1 Forward Current Derating Curve

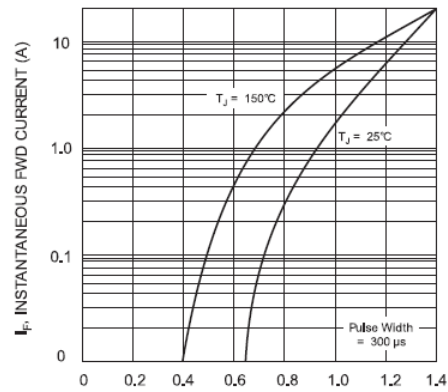


Fig. 2 Typical Fwd Characteristics

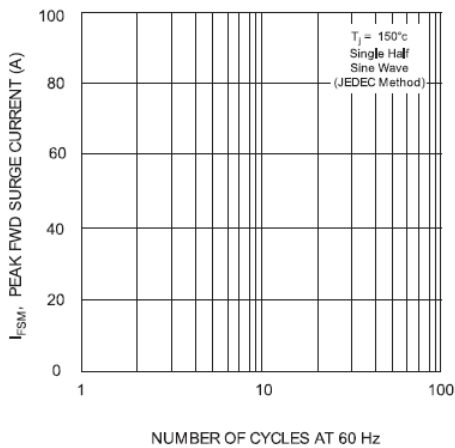


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

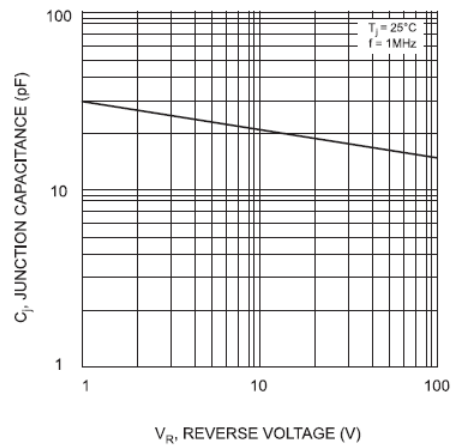


Fig. 4 Typical Junction Capacitance

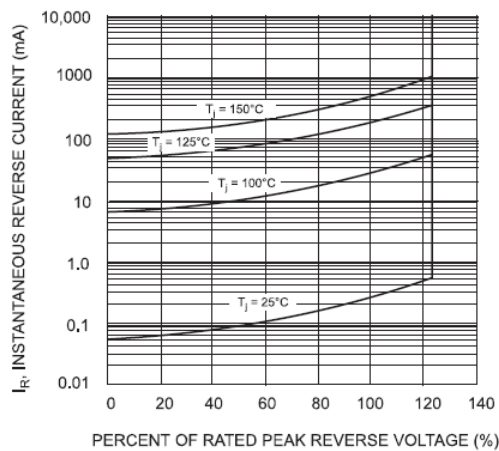


Fig. 5 Typical Reverse Characteristics

Note: Specifications are subject to change without notice.