

KBP2005 THRU KBP210

KBP

BRIDGE RECTIFIERS

FEATURES

- · UL Recognized File # E469616
- · Reliable low cost construction utilizing molded plastic technique
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability
- · Glass passivated chip junction

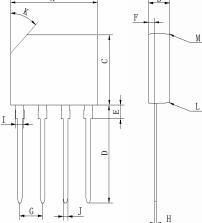
MECHANICAL DATA

Case: Molded plastic, KBP

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.053ounce, 1.5gram



KBP Unit:mm							
DIM	MIN	MAX					
A	14.25	14.75					
В	3.35	3.65					
C	10.2	10.6					
D	14.3	14.8					
E	1.8	2.2					
F	0.8	1.1					
G	3.56	4.06					
H	0.3	0.55					
I	1.22	1.42					
J	0.76	0.86					
K	2.7X45°(Typ.)						
L	_	<i>3</i> °					
M	_	<i>3</i> °					
All Dimensions in millimeter							

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	T	2.0							Amp
.375"(9.5mm) Lead Length at T _A =50	I _(AV)								
Peak Forward Surge Current,		45							Amp
8.3ms single half-sine-wave	I_{FSM}								
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V_{F}	1.1							Volts
at 2.0A DC and 25	V _F								
Maximum Reverse Current at T _A =25		10.0							uAmp
at Rated DC Blocking Voltage T _A =100	I_R	500							
Typical Junction Capacitance (Note 1)	C_{J}	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30							
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	11							/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							

NOTES:

- 1- Measured at 1 $\ensuremath{\text{MH}_{\text{Z}}}$ and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.





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Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

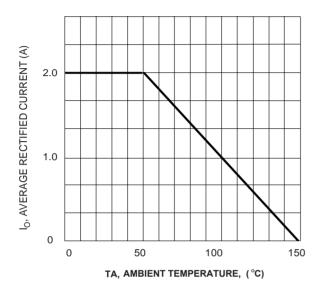


Fig. 2 Typical Fwd Characteristics

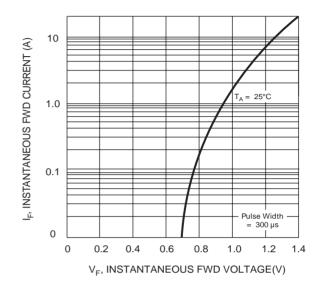


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

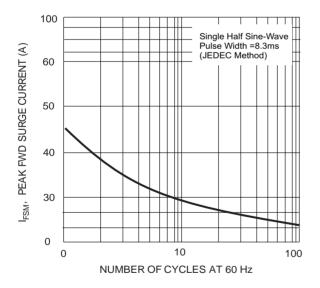


Fig. 4 Typical Junction Capacitance

