



BRIDGE RECTIFIERS

FEATURES

- · UL Recognized File # E469616
- \cdot 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

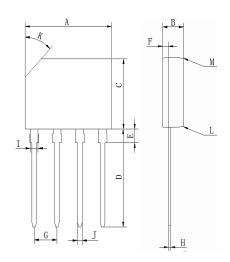
Case: Molded plastic, KBP

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



KBP Unit:mm						
DIM	MIN	MAX				
A	13.5	14.5				
В	3. 2	3.6				
С	10.2	10.6				
D	13	14.6				
E	1.8	2. 2				
F	0.8	1.1				
G	3. 56	4.06				
Н	0.3	0.55				
I	1. 22	1.42				
J	0.76	0.86				
K	2. 7X45°	(Typ.)				
L	-	3°				
M	_	3°				
All Dimensions in millimeters						

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	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310	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 .375"(9.5mm) Lead Length at T_A =50	I _(AV)				3.0			-	Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	60							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 3.0A DC and 25	$V_{\rm F}$	1.1							Volts
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							/W
Typical Thermal Resistance (Note 2)	$R_{ heta JL}$	11						/W	
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							

NOTES:

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



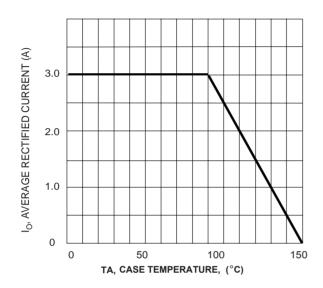


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Fig. 2 Typical Fwd Characteristics

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig. 1 Forward Current Derating Curve



1.0 T_{A= 25°C}

1.0 T_{A= 25°C}

1.0 Pulse Width = 300 µs

0 0.2 0.4 0.6 0.8 1.0 1.2 1.4

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

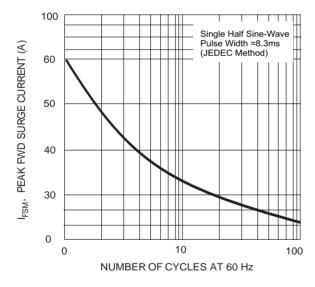


Fig. 4 Typical Junction Capacitance

V_F, INSTANTANEOUS FWD VOLTAGE (V)

