KBP2005 THRU KBP210 *SINGLE-PHASE SILICON BRIDGE RECTIFIER*



REVERSE VOLTAGE: FORWARD CURRENT:

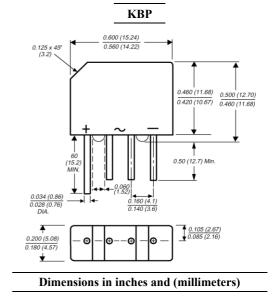
50 to 1000 VOLTS 2.0 AMPERE

FEATURES

- · Reliable low cost construction utilizing molded plastic technique
- \cdot Ideal for printed circuit board
- \cdot Low forward voltage drop
- \cdot Low reverse leakage current
- · High surge current capability

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: 0.012ounce, 0.33gram



Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, $60H_Z$, 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	т	2.0							Amp
.375"(9.5mm) Lead Length at T _A =50	I _(AV)								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 60							Amp	
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	т	10.0							uAmp
at Rated DC Blocking Voltage T _A =100	I _R	500							
Typical Junction Capacitance (Note 1)	CJ	25							pF
Typical Thermal Resistance (Note 2)	R _{0JA}	30							/W
Typical Thermal Resistance (Note 2)	R _{0JL}	11							/W
Operating and Storage Temperature Range	$T_{\rm J}$, Tstg	-55 to +125							

NOTES:

1- Measured at 1 MH_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.

RATINGS AND CHARACTERISTIC CURVES

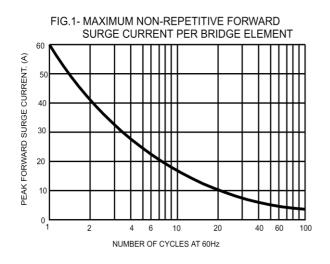


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

