KBPC3005 THRU KBPC310

SINGLE-PHASE SILICON BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 3.0 AMPERE

http://www.njzrg.com

FEATURES

· Reliable low cost construction

· Ideal for printed circuit board

· Low forward voltage drop

· Low reverse leakage current

· High surge current capability

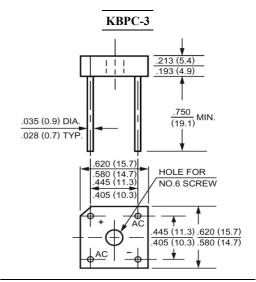
MECHANICAL DATA

Case: Molded plastic, KBPC-3

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.1ounce, 2.84gram



Dimensions in inches and (millimeters)

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	KBPC3005	KBPC301	KBPC302	KBPC304	KBPC306	KBPC308	KBPC310	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	T		2.0						
Rectified Current at T _C =50	I _(AV)	3.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 60							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage Drop per Element	V	1.1							Volts
at 1.5A DC and 25	V_{F}								
Maximum Reverse Current at T _A =25					10.0				
at Rated DC Blocking Voltage T _A =100	I_R	500							uAmp
Typical Junction Capacitance (Note 1)	$C_{\mathbf{J}}$	21							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	12							/W
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	8							/W
Operating and Storage Temperature Range	T _J , Tstg				-55 to +12	5			

NOTES:

- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2- Unit mounted on 4.0 x 4.0 x 0.11" thick (10.5 x 10.5 x 0.3cm) Al. Plate
- 3- Unit mounted on P.C.B. at 0.375" (9.5mm) lead length with 0.5×0.5 " (12 x 12mm) copper pads

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RATINGS AND CHARACTERISTIC CURVES

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