

KBP30X SERIES

SINGLE-PHASE SILICON BRIDGE RECTIFIER

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http://www.clt-hz.com

KBP301 THRU KBP307

SINGLE-PHASE SILICON BRIDGE RECTIFIER



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

FEATURES

- · 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

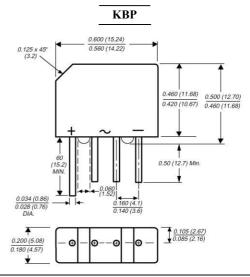
MECHANICAL DATA

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



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	Symbols	KBP301	KBP302	KBP303	KBP304	KBP305	KBP306	KBP307	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	_	3.0							Amp
.375"(9.5mm) Lead Length at T $_{A}\!\!=\!\!50^{\circ}\!$	I(AV)								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	IFSM	IFSM 80							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V_{F}	1.1							Volts
at 3.0A DC and 25 $^{\circ}$ C	' r								
Maximum Reverse Current at T _A =25°C	IR	10.0 500							uAmp
at Rated DC Blocking Voltage TA=100°C	IK								
Typical Junction Capacitance (Note 1)	CJ	25							pF
Typical Thermal Resistance (Note 2)	Roja	30							°C/W
Typical Thermal Resistance (Note 2)	Røjl				11	•			°C/W
Operating and Storage Temperature Range	TJ, Tstg				-55 to +150)			$^{\circ}$

NOTES:

- 1- Measured at 1 MHz 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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RATINGS AND CHARACTERISTIC CURVES

