KBP2005 THRU KBP210

SINGLE-PHASE SILICON BRIDGE RECTIFIER

REVERSE VOLTAGE: 50 to 1000 V

FORWARD CURRENT: 2 A

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

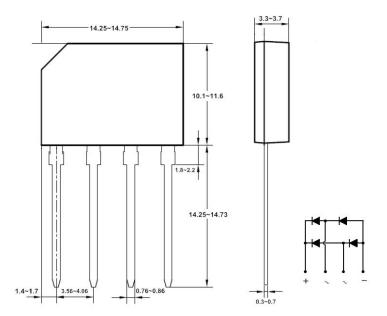
Mechanical Date

· Case: Molded plastic, KBP

• Epoxy: UL 94V-0 rate flame retardant

 Terminals: Leads solderable per MIL-STD-202 method 208 guaranteed

• Mounting position: Any



Dimensions in millimeters

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5 mm) Lead Length at $T_A = 50$ °C	I _(AV)	2							А
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I _{FSM}	55							А
Maximum Forward Voltage at 2 A DC and 25 °C	V_{F}	1.1							V
	I _R	5 500							μA
Typical Junction Capacitance 1)	CJ	25						pF	
Typical Thermal Resistance 2)	$R_{\theta JA}$	40							°C/W
Operating and Storage Temperature Range	T _J , T _{Stg}	-55 to +150							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC.



²⁾ Thermal resistance junction to Case, Lead and Ambient.

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