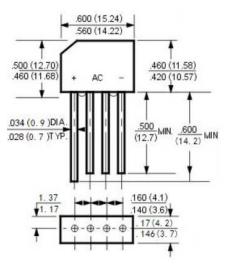
KBP2005 THRU KBP210-HAF

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
- Halogen and Antimony Free(HAF), RoHS compliant



KBP

Dimensions in inches and (millimeters)

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

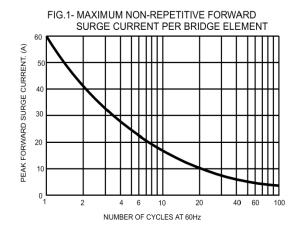
Absolute Maximum Ratings and Characteristics

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%.

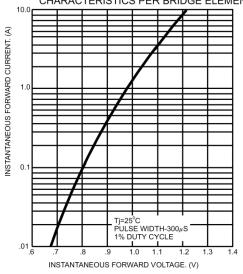
Parameter	Symbols	KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	202	400	600	800	1000	V
									-
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5 mm) Lead Length at T_A = 50 $^{\circ}C$	I _(AV)	2							А
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I _{FSM}	60							А
Maximum Forward Voltage at 2 A DC and 25 $^\circ \! C$	V _F	1.1							V
Maximum Reverse Currentat $T_A = 25 ^{\circ}C$ at Rated DC Blocking Voltage $T_A = 100 ^{\circ}C$	I _R	10 500							μA
Typical Junction Capacitance ¹⁾	CJ	25							pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	30							°C/W
Typical Thermal Resistance 2)	$R_{ extsf{ heta}JL}$	11							°C/W
Operating and Storage Temperature Range	T _J , T _{Stg}	-55 to +125							°C

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

²⁾ Thermal resistance junction to ambient and from juntion to lead at 0.375" (9.5 mm) lead length P.C.B mounted.







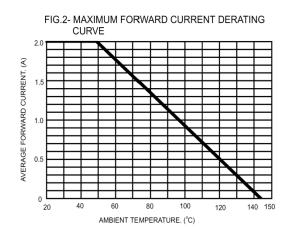


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

