KBP206 THRU KBP210

SINGLE PHASE 2.0 AMP BRIDGE RECTIFIERS

FEATURES

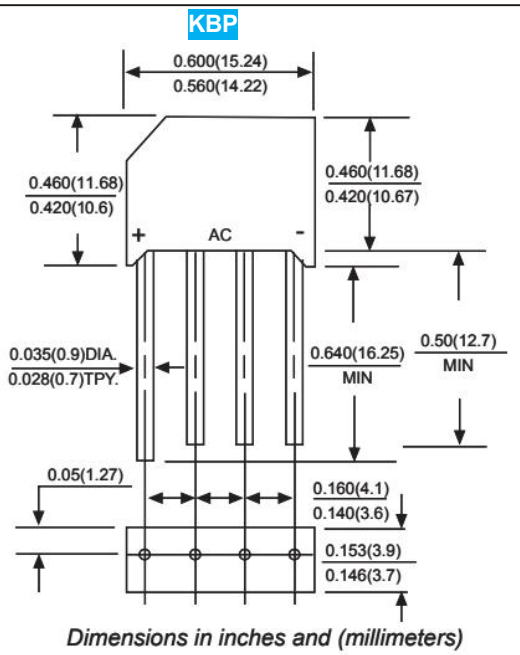
* Ideal for printed circuit board
* Low forward voltage
* Low leakage current
* Polarity: marked on body
* Mounting position: Any
* Weight: 4.8 grams

VOLTAGE RANGE

600 to 1000 Volts

CURRENT

2.0 Ampere



Dimensions in inches and (millimeters)

AURATSAEETRABARATERSTS

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

	Symbols	*KBP206*	*KBP208*	*KBP210*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	**Volts**
Maximum Average Forward Rectified Current. 375"(9.5mm) Lead Length at T_A=50 ¡ãC	$I_{(AV)}$	2.0			**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50			**Amp**
Maximum Forward Voltage at 2.0A DC and 25¡ãC	V_F	1.1			**Volts**
Maximum Reverse Current at T_A=25¡ãC	I_R	10.0			**uAmp**
at Rated DC Blocking Voltage T_A=100		500			
Typical Junction Capacitance (Note 1)	C_J	25			**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30			**¡ãW**
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	16			**¡ãW**
Operating and Storage Temperature Range	T_J Tstg	-55 to +150			**¡ã**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of4.0 VDC.

2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.

RATING AND CHARACTERISTIC CURVES (KBP206 THRU KBP210)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

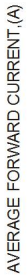


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

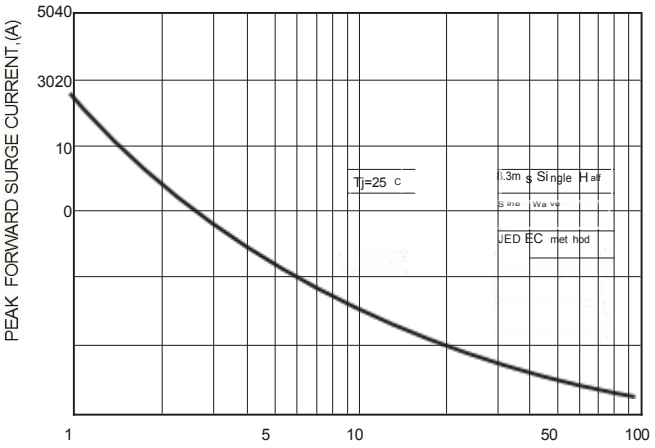


FIG.3-TYPICAL FORWARD CHARACTERISTICS

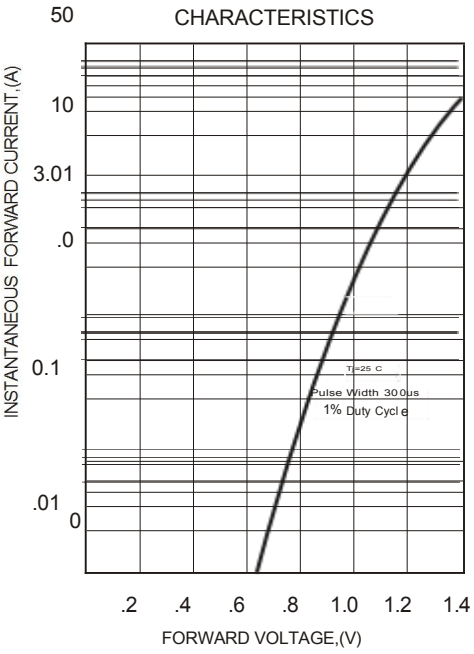


FIG.4-TYPICAL REVERSE CHARACTERISTICS