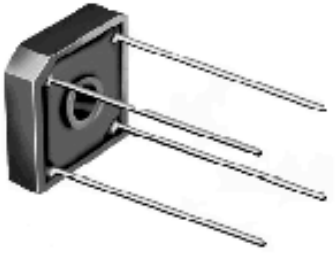
Data Sheet

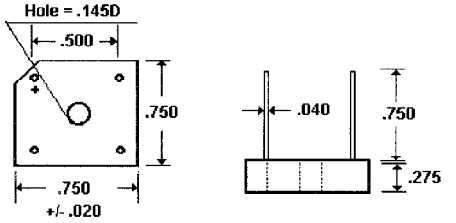
8.0 Amp SINGLE PHASE SILICON BRIDGE

KBPC800 . . . 810 Series

Description



Mechanical Dimensions



Mechanical Data: Mounting Position - Any.
Weight - 20 Grams.

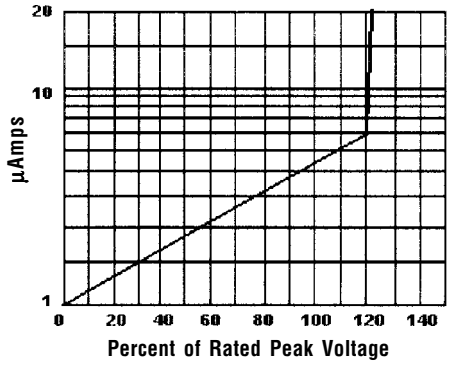
Features

- **COMPACT SIZE**
- **LOW LEAKAGE CURRENT**
- **125 AMP SURGE OVERLOAD RATING**
- **MEETS UL SPECIFICATION 94V-0**

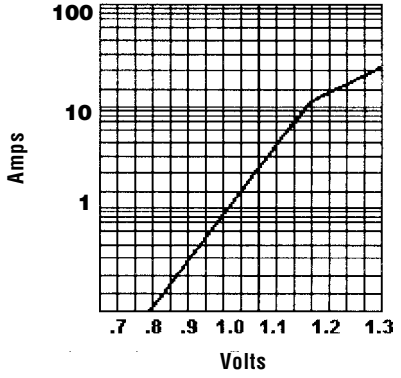
Electrical Characteristics @ 25°C.	***KBPC800 . . . 810 Series***							**Units**
Maximum Ratings	**KBPC800**	**KBPC801**	**KBPC802**	**KBPC804**	**KBPC806**	**KBPC808**	**KBPC810**	
Peak Repetitive Reverse Voltage...V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage...$V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage...V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current...$I_{F(av)}$								
T_C =100°C				8.0				Amps
T_A = 50°C				8.0				Amps
Non-Repetitive Peak Forward Surge Current...I_{FSM} 8.3 mS Single ½ Sine Wave Imposed on Rated Load				150				Amps
Rating for Fusing (T < 8.3 mS)				127				A^2S
Forward Voltage...V_F Bridge Element @ 8.0 Amps				1.2				Volts
DC Reverse Current...I_R								
@ Rated DC Blocking Voltage T_A = 25°C				10				µAmps
T_A =100°C				1.0				mAmps
Typical Junction Capacitance...C_J	<		186	>	<	90	>	pF
Operating & Storage Temperature Range...T_J, T_{STRG}				-55 to 150				°C

8.0 Amp
SINGLE PHASE SILICON BRIDGE

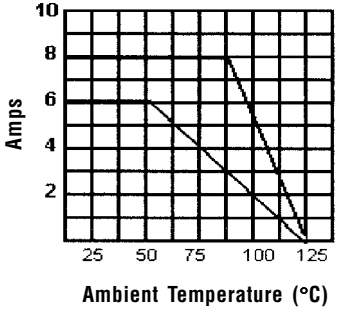
Typical Reverse Characteristics



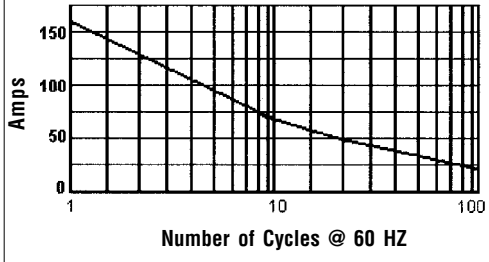
Typical Instantaneous Forward Characteristics



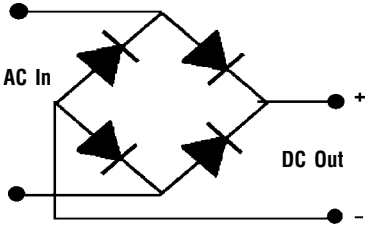
Forward Current Derating Curve



Non-Repetitive Peak Forward Surge Current



Electrical Description



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.