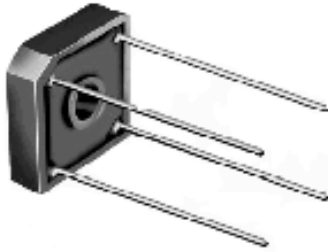


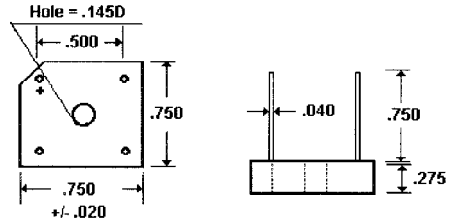
# 8.0 Amp SINGLE PHASE SILICON BRIDGE

**KBPC800 . . . 810 Series**

## Description



## Mechanical Dimensions



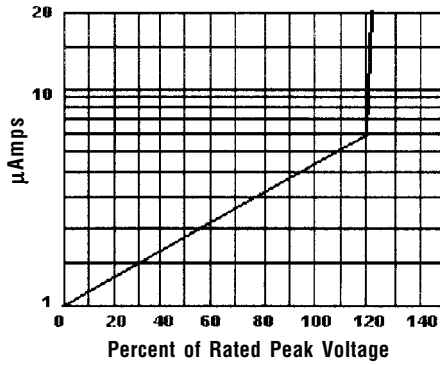
**Mechanical Data:** Mounting Position - Any.  
Weight - 20 Grams.

## Features

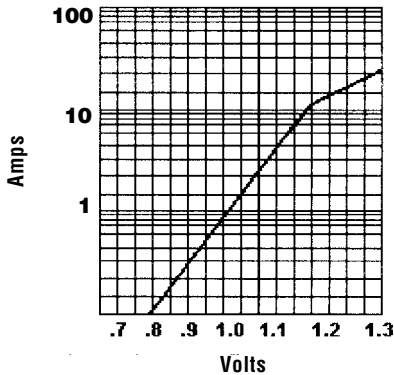
- **COMPACT SIZE**
- **LOW LEAKAGE CURRENT**
- **125 AMP SURGE OVERLOAD RATING**
- **MEETS UL SPECIFICATION 94V-0**

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... $I_{F(av)}$ $T_C = 100^\circ C$ $T_A = 50^\circ C$	.....			8.0	.....				Amps 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 <sup>2</sup> S
Forward Voltage... $V_F$ Bridge Element @ 8.0 Amps	.....			1.2	.....				Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage $T_A = 25^\circ C$ $T_A = 100^\circ C$	.....			10	.....				μAmps mAmps
Typical Junction Capacitance... $C_j$	< ..... 186 ..... >				< ..... 90 ..... >				pF
Operating & Storage Temperature Range... $T_J, T_{STRG}$	.....			-55 to 150	.....				°C

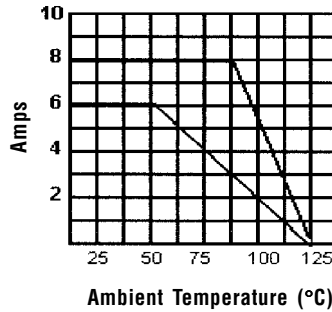
**Typical Reverse Characteristics**



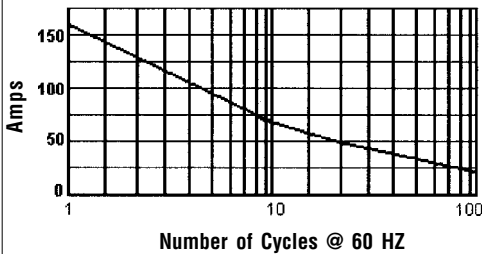
**Typical Instantaneous Forward Characteristics**



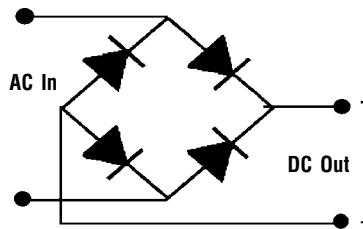
**Forward Current Derating Curve**



**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%.