

Silicon Bridge Rectifiers

KBPC8005--KBCP810

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 200 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208



Lead-free

Maximum Ratings (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	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 Output current @T _A =50°C	I _{F(AV)}	8.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	200							A

Thermal Characteristics

Characteristic	Symbol	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	UNITS
Operating junction temperature range	T _J	- 55 ---- + 125							°C
Storage temperature range	T _{STG}	- 55 ---- + 150							°C

Electrical Characteristics (@T_A = 25°C unless otherwise specified)

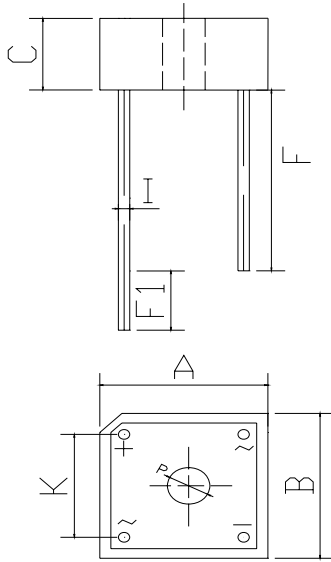
Characteristic	Symbol	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	UNITS
Maximum instantaneous forward voltage @4.0A	V _F	1.1							V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	10 1.0							μA mA



Silicon Bridge Rectifiers

KBPC8005--KBCP810

PACKAGE OUTLINE DIMENSIONS



BR8		
Dim	Min	Max
A	18.75	19.15
B	18.75	19.15
C	6.90	7.20
F	19.00min	
F1	2.00min	
I	Ø1.20	Ø1.40
K	12.20	12.80
P	Ø3.80Typical	
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
KBPC8005--KBPC810	BR8	200Units/Box



Silicon Bridge Rectifiers

KBPC8005--KBCP810

FIG.1 -- PEAK FORWARD SURGE CURRENT

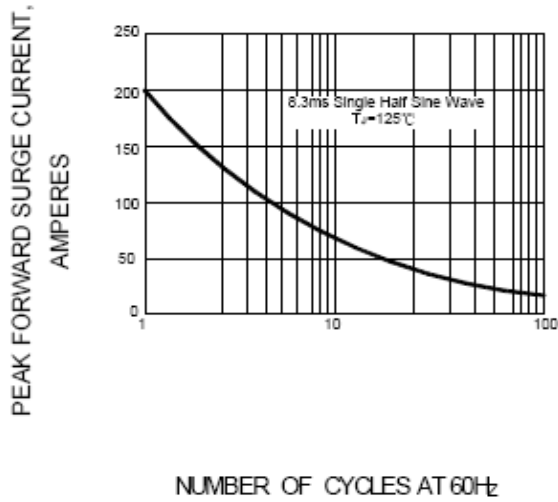


FIG.2 -- FORWARD DERATING CURVE

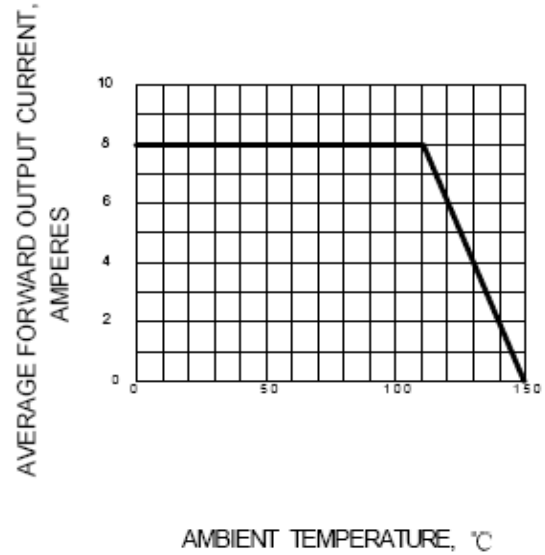


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

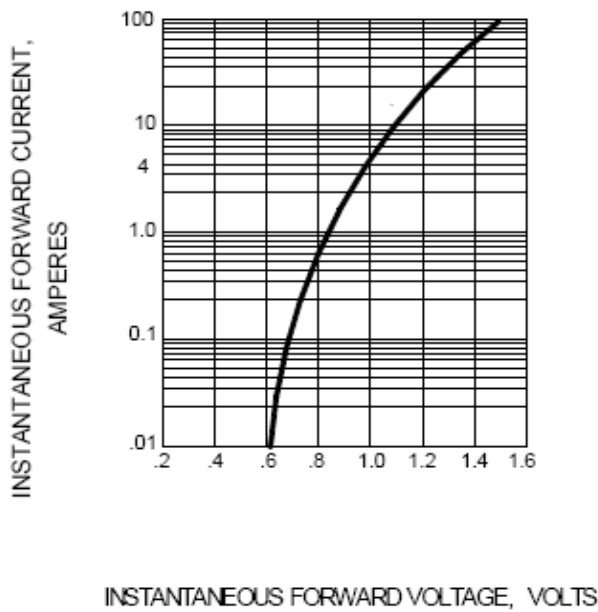


FIG.4 -- TYPICAL JUNCTION CAPACITANCE

