

Silicon Bridge Rectifiers

KBPC6005--KBPC610

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 125 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 AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

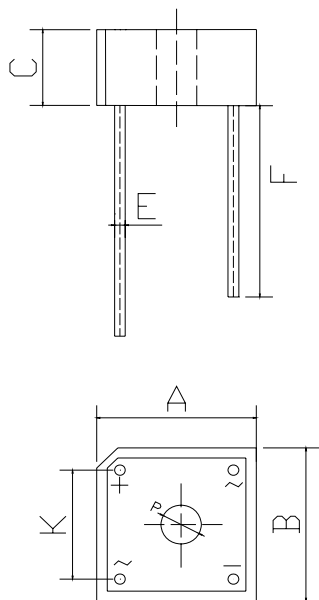
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		KBPC 6005	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	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 @ $T_A=50^{\circ}C$	$I_{F(AV)}$	6.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	125							A
Maximum instantaneous forward voltage @3.0A	V_F	1.1							V
Maximum reverse current @ $T_A=25^{\circ}C$ at rated DC blocking voltage @ $T_A=100^{\circ}C$	I_R	10 1.0							μA mA
Operating junction temperature range	T_J	- 55 ---- + 125							$^{\circ}C$
Storage temperature range	T_{STG}	- 55 ---- + 150							$^{\circ}C$

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PACKAGE OUTLINE DIMENSIONS



BR3		
Dim	Min	Max
A	15.10	15.50
B	15.10	15.50
C	6.30	6.60
E	Ø0.60	Ø0.80
F	19.00min	
K	9.50	10.50
P	Ø4.00Typical	
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
KBPC6005--KBPC610	BR3	250Units/Box

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KBPC6005--KBCP610

FIG.1 – PEAK FORWARD SURGE CURRENT

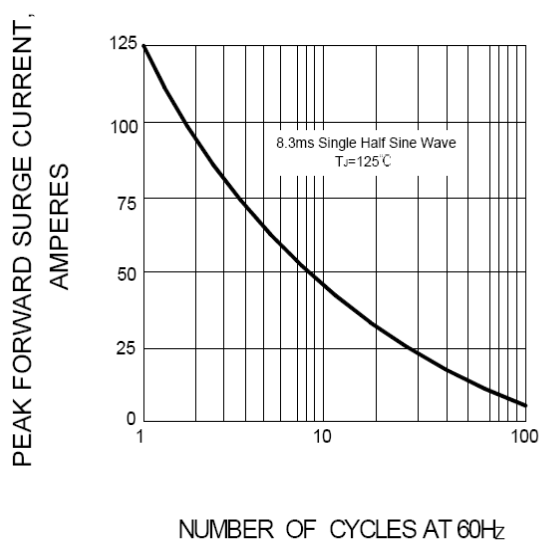


FIG.2 – FORWARD DERATING CURVE

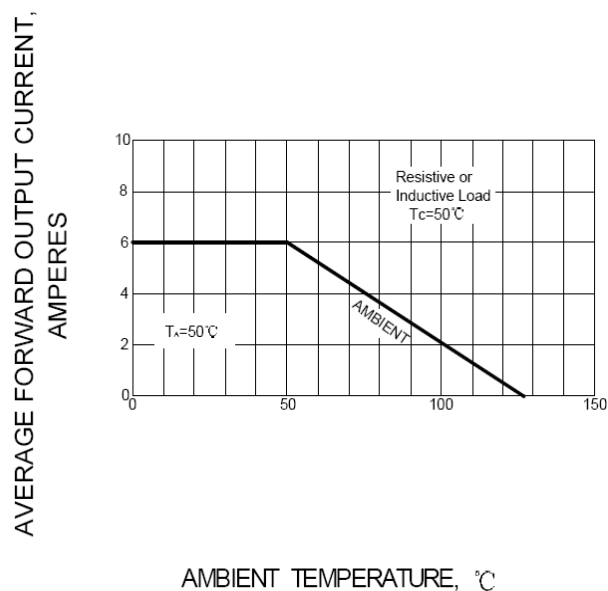


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

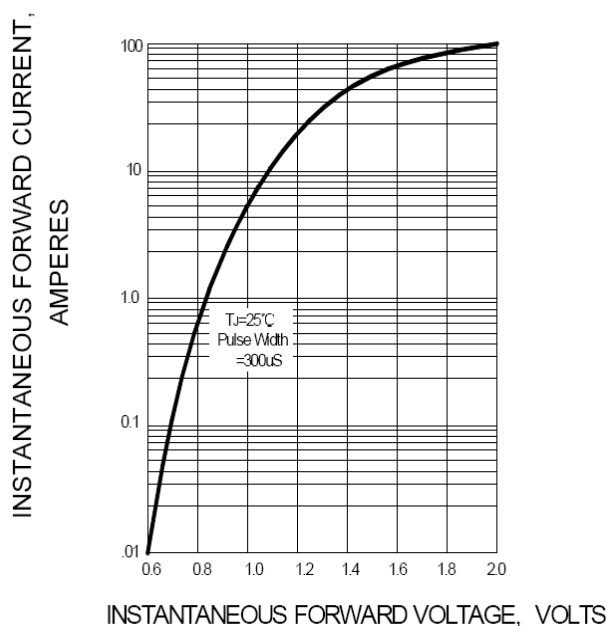


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

