

Silicon Bridge Rectifiers

KBPC10005--KBPC1010

FEATURES

- Rating to 1000V PRV
- 200 amperes surge capability
- High efficiency
- Electrically isolated metal case for maximum heat dissipation
- Mounting: thru hole for # 8 screw mounting



Lead-free

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

Characteristic	Symbol	KBPC 10005	KBPC 1001	KBPC 1002	KBPC 1004	KBPC 1006	KBPC 1008	KBPC 1010	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 =25°C	I _{F(AV)}	10							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	200							A

Thermal Characteristics

Characteristic	Symbol	KBPC 10005	KBPC 1001	KBPC 1002	KBPC 1004	KBPC 1006	KBPC 1008	KBPC 1010	UNITS
Operating junction temperature range	T _J	- 55 ---- + 125							°C
Storage temperature range	T _{STG}	- 55 ---- + 150							°C

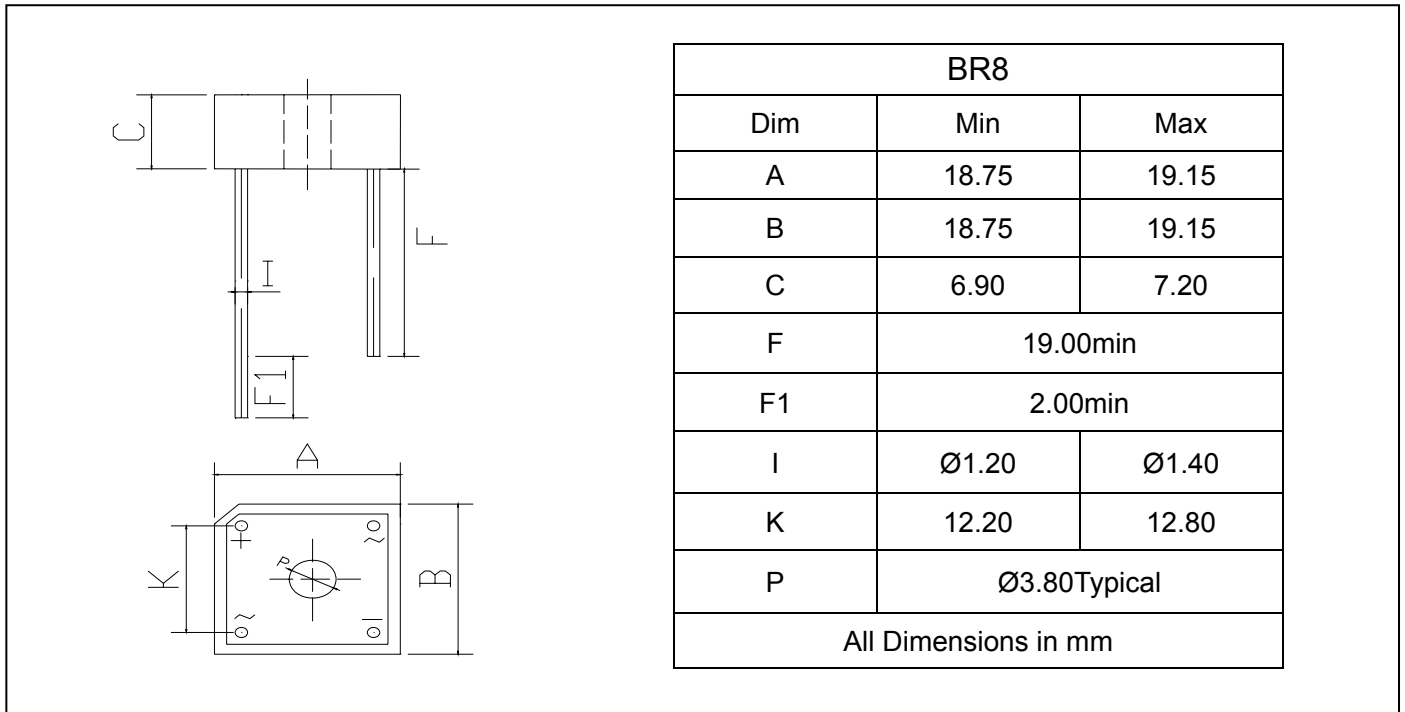
Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	KBPC 10005	KBPC 1001	KBPC 1002	KBPC 1004	KBPC 1006	KBPC 1008	KBPC 1010	UNITS
Maximum instantaneous forward voltage @5.0A	V _F	1.1							V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	10							μA
		1.0							mA

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PACKAGE OUTLINE DIMENSIONS



PACKAGE INFORMATION

Device	Package	Shipping
KBPC10005--KBPC1010	BR8	50Units/Box



Silicon Bridge Rectifiers

KBPC1005--KBPC1010

FIG.1 – PEAK FORWARD SURGE CURRENT

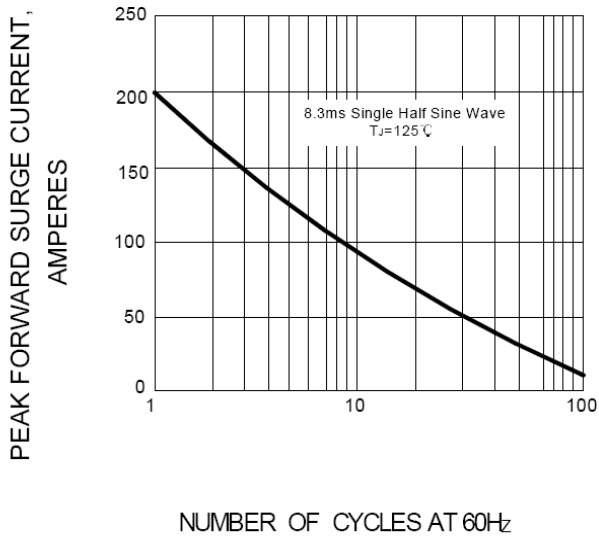


FIG.2 – FORWARD DERATING CURVE

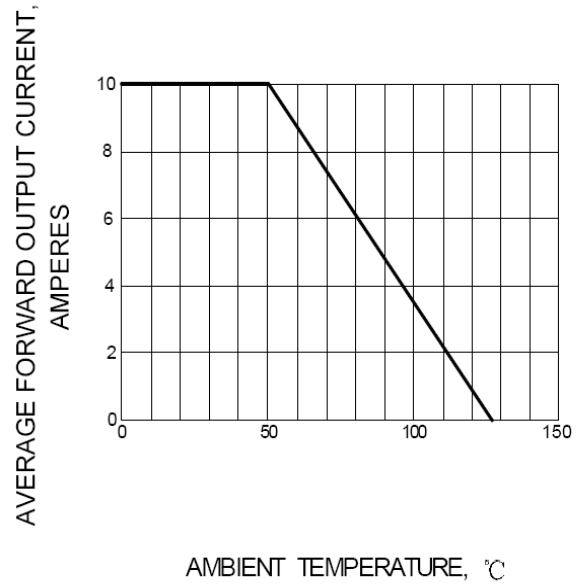


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

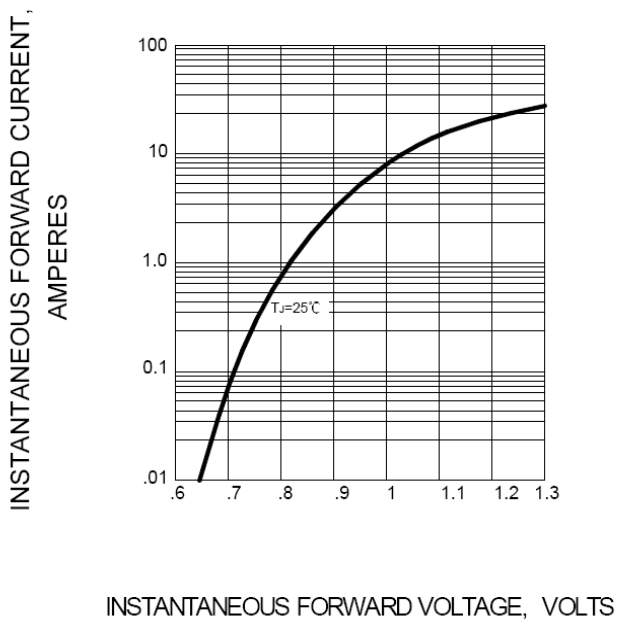


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

