

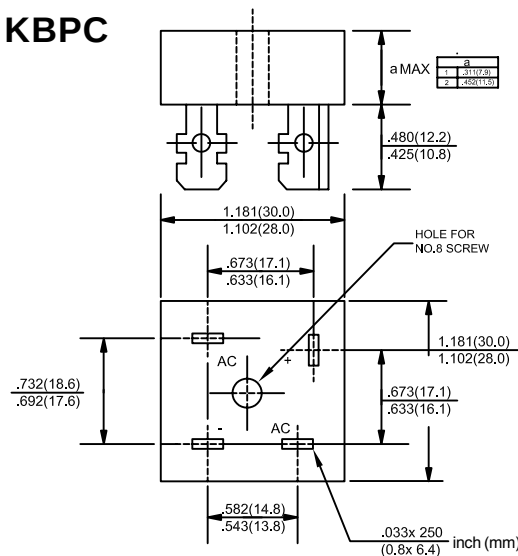
SILICON BRIDGE RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 15.0 A

FEATURES

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

KBPC



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 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	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 @ $T_A=25^\circ\text{C}$	$I_{F(AV)}$	15.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	300.0							A
Maximum instantaneous forward voltage @ 7.5 A	V_F	1.1							V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	I_R	10.0 1.0							μA mA
Operating junction temperature range	T_J	- 55 --- + 125							$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 --- + 150							$^\circ\text{C}$

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FIG.1 – PEAK FORWARD SURGE CURRENT

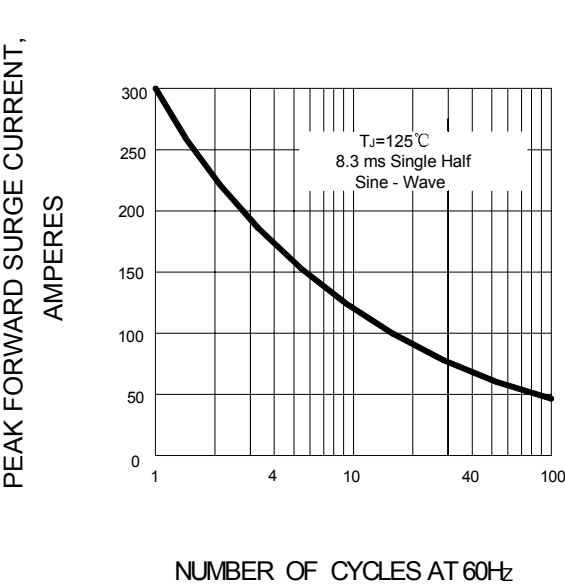


FIG.2 – FORWARD DERATING CURVE

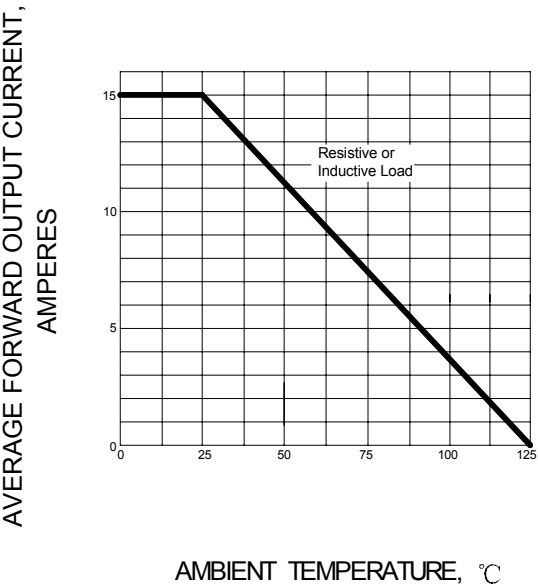


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

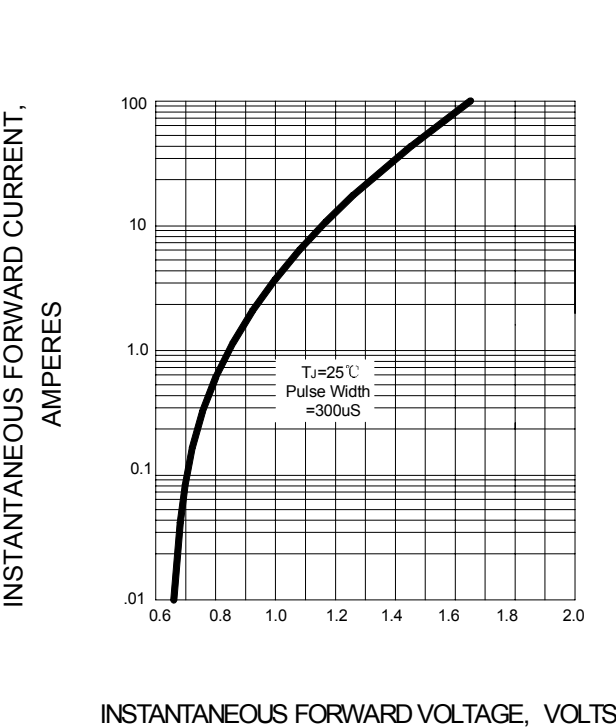


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

