SAMYANG ELECTRONICS

KBPC25005---KBPC2510

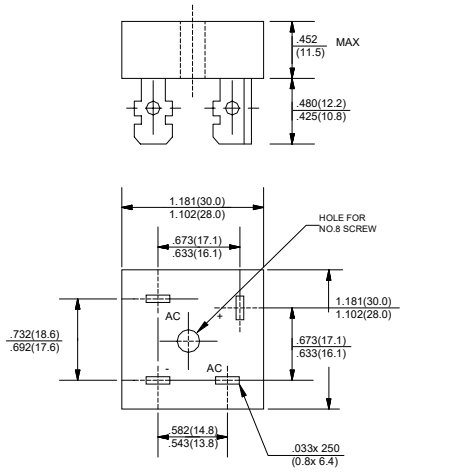
SILICON BRIDGE RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 25.0 A

FEATURES

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

KBPC25



inch (mm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

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

		KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	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 forw ard Output current @T_A=25℃	$I_{F(AV)}$	25.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	300.0							A
Maximum instantaneous forw ard voltage @ 12.5 A	V_F	1.1							V
Maximum reverse current @T_A=25℃	I_R	10.0							μA
at rated DC blocking voltage @T_A=100℃		1.0							mA
Operating junction temperature range	T_J	- 55 ---- + 125							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

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FIG.1 – PEAK FORWARD SURGE CURRENT

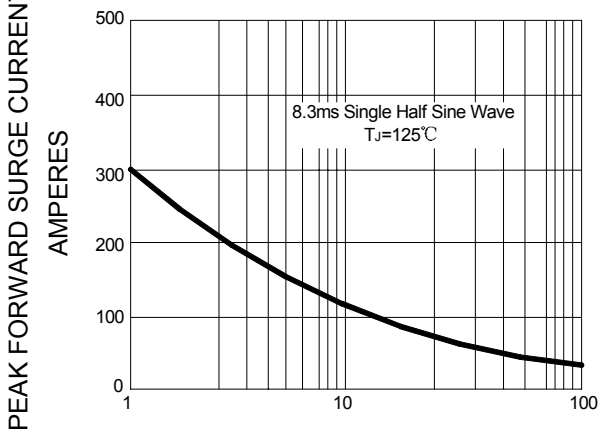


FIG.2 – FORWARD DERATING CURVE

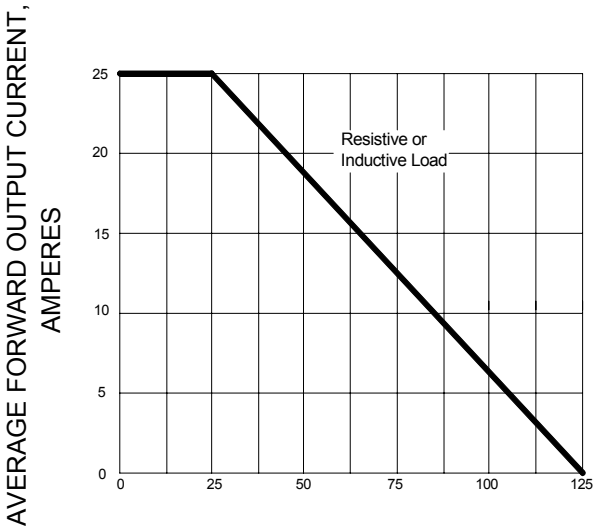


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

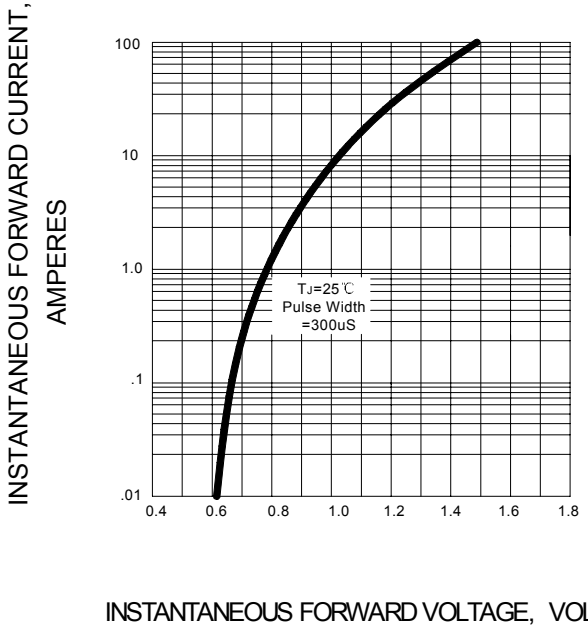


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

