

KBPC25005-KBPC2510

Silicon Bridge Rectifiers

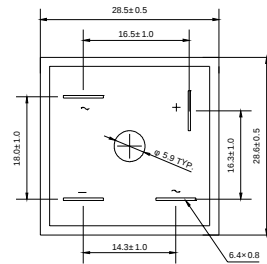
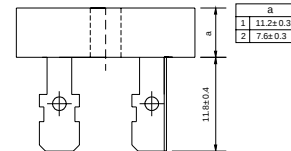
VOLTAGE RANGE: 50 --- 1000 V

CURRENT: 25.0 A

KBPC

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
- ◇ High case dielectric with standing voltage of 2500 V_{RMS}



Dimensions in millimeters

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 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 forward Output current @ $T_A=25^{\circ}C$	$I_{F(AV)}$	25.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	300.0							A
Maximum instantaneous forward voltage @ 12.5 A	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	10.0 1.0							μA mA
Operating junction temperature range	T_J	- 55 ---- + 125							$^{\circ}C$
Storage temperature range	T_{STG}	- 55 ---- + 150							$^{\circ}C$

Ratings AND Characteristic Curves

FIG.1 – PEAK FORWARD SURGE CURRENT

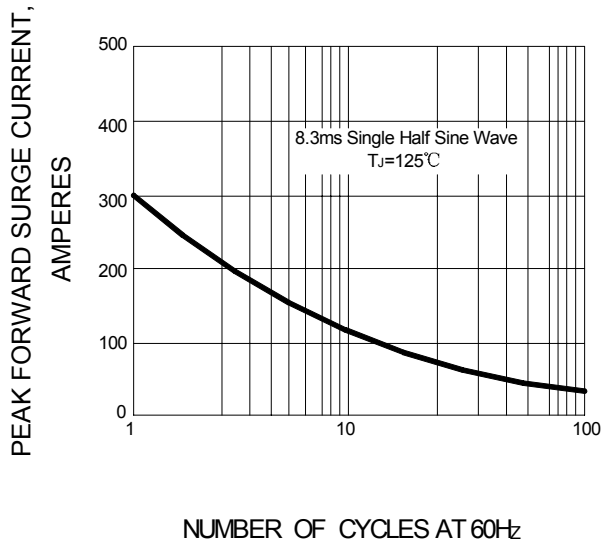


FIG.2 – FORWARD DERATING CURVE

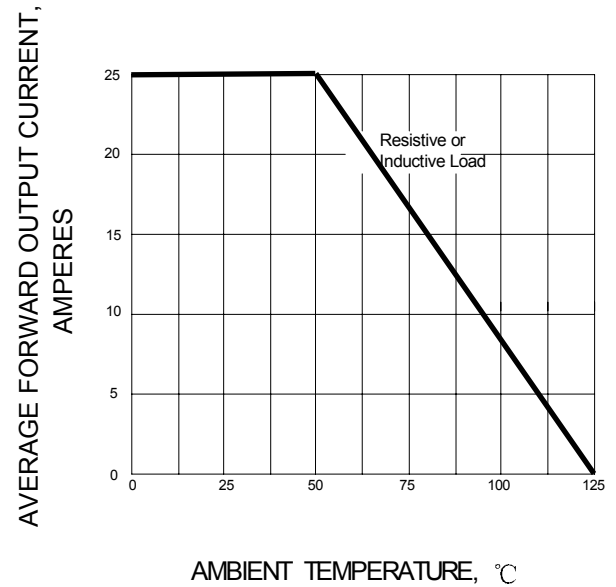


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

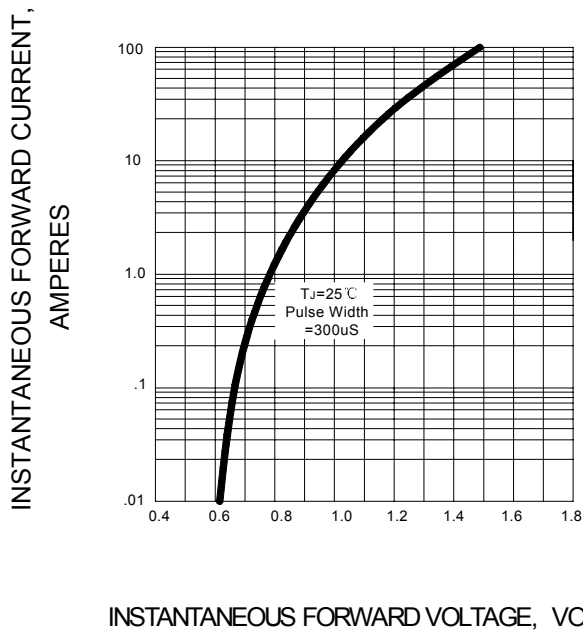


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

