

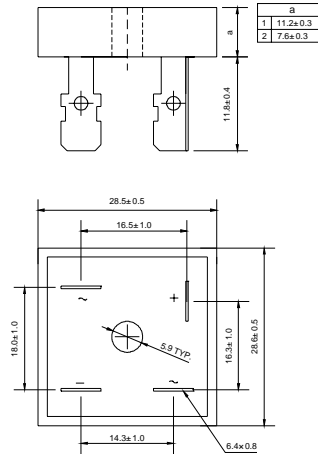
**SILICON BRIDGE RECTIFIERS**

**VOLTAGE RANGE: 50 --- 1000 V**  
**CURRENT: 50.0 A**

**FEATURES**

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

**KBPC**



Dimensions in millimeters

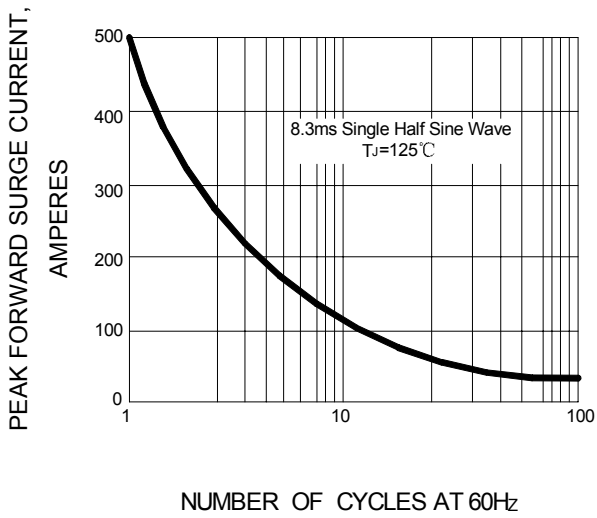
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

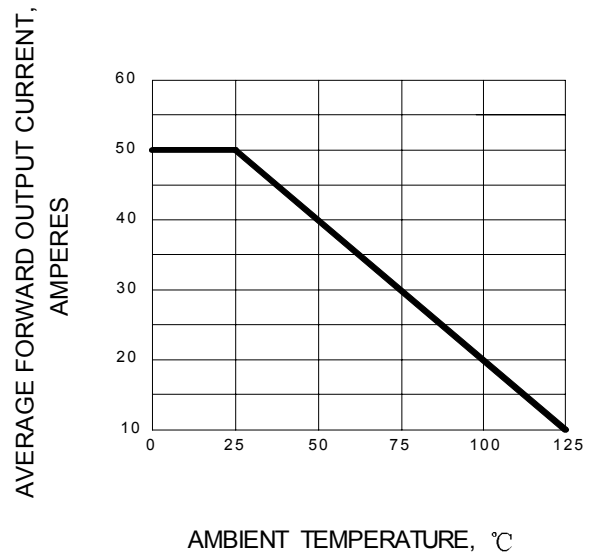
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		KBPC 50005	KBPC 5001	KBPC 5002	KBPC 5004	KBPC 5006	KBPC 5008	KBPC 5010	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 @ $T_A=25^\circ C$	$I_{F(AV)}$	50.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	500.0							A
Maximum instantaneous forward voltage @ 25.0 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							$\mu A$ mA
Operating junction temperature range	$T_J$	- 55 ---- + 125							$^\circ C$
Storage temperature range	$T_{STG}$	- 55 ---- + 150							$^\circ C$

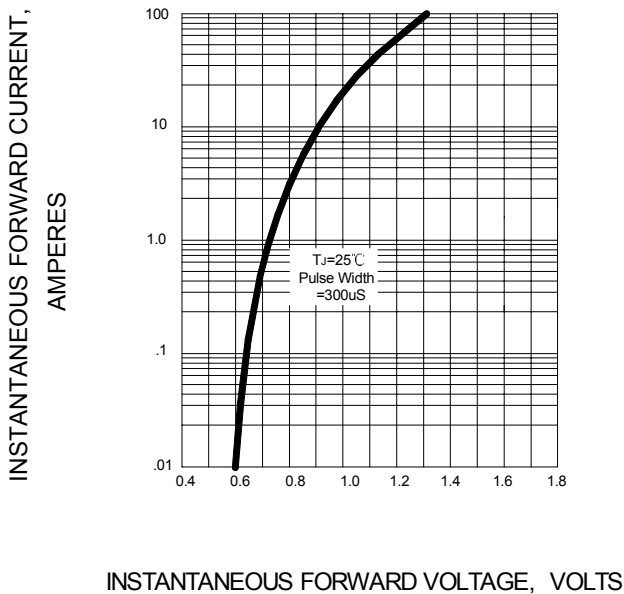
**FIG.1 -- PEAK FORWARD SURGE CURRENT**



**FIG.2 -- FORWARD DERATING CURVE**



**FIG.3 -- TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 -- TYPICAL REVERSE CHARACTERISTIC**

