

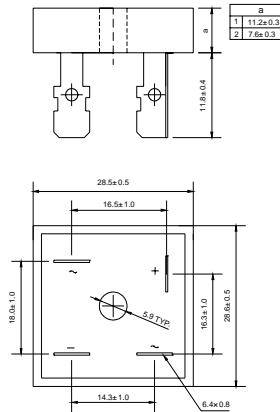


VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 25.0 A

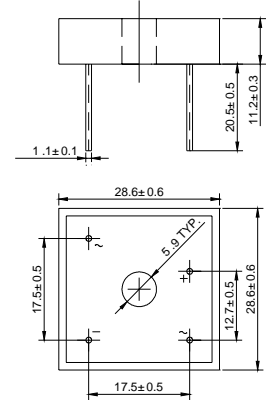
Features

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 300 Amperes peak
- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◇ Lead solderable per MIL-STD-202 method 208

KBPC



KBPC-W



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 (W)	KBPC 2501 (W)	KBPC 2502 (W)	KBPC 2504 (W)	KBPC 2506 (W)	KBPC 2508 (W)	KBPC 2510 (W)	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 @ $T_A=25^\circ\text{C}$	$I_{F(AV)}$	25.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	400.0							A
I^2t Rating for fusing @ $T_j=25^\circ\text{C}$	I^2t	664							A ² S
Maximum instantaneous forward voltage @ 12.5 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
Typical thermal resistance per leg	$R_{\theta JC}$	2.2							°C/W
Operating junction temperature range	T_J	- 55 ---- + 125							°C
Storage temperature range	T_{STG}	- 55 ---- + 150							°C



Ratings AND Characteristic Curves

FIG1:Io-Tc Curve

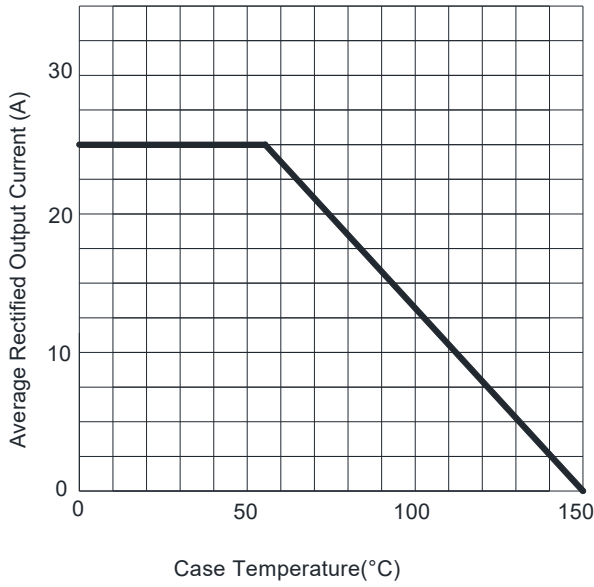


FIG2:Surge Forward Current Capability

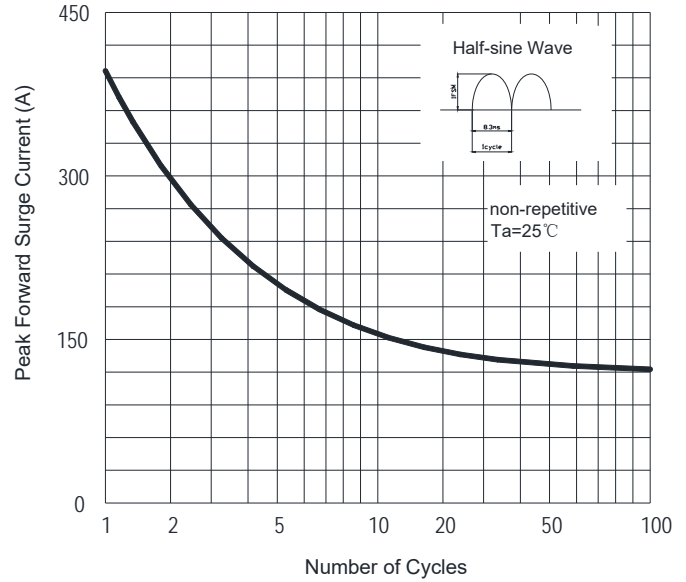


FIG3:Instantaneous Forward Voltage

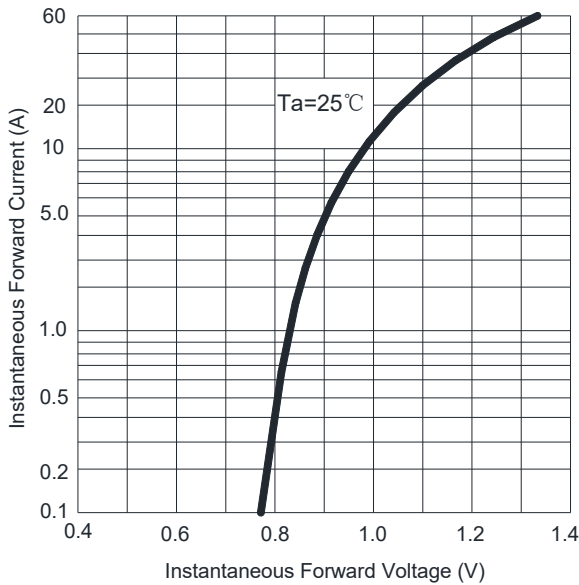


FIG4:Typical Reverse Characteristics

