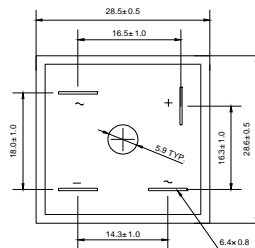
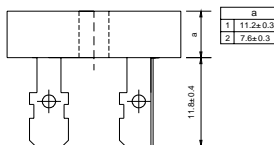




**VOLTAGE RANGE: 1200 V**  
**CURRENT: 50.0 A**



### KBPC



Dimensions in millimeters

### Features

- ◇ Rating to 1200V PRV
- ◇ Surge overload rating to 500 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

### 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%.

		<b>KBPC5012</b>	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	1200	V
Maximum RMS voltage	$V_{RMS}$	840	V
Maximum DC blocking voltage	$V_{DC}$	1200	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
$I^2t$ Rating for fusing @ $T_j=25^\circ C$	$I^2t$	1250	$A^2S$
Maximum instantaneous forward voltage @ 25 A	$V_F$	1.1	V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	$I_R$	5.0 3.0	$\mu A$ mA
Typical thermal resistance per leg	$R_{\theta JC}$	1.6	$^\circ C/W$
Operating junction temperature range	$T_J$	- 55 ---- + 150	$^\circ C$
Storage temperature range	$T_{STG}$	- 55 ---- + 150	$^\circ C$

### Ratings AND Characteristic Curves

FIG1:Io-Tc Curve

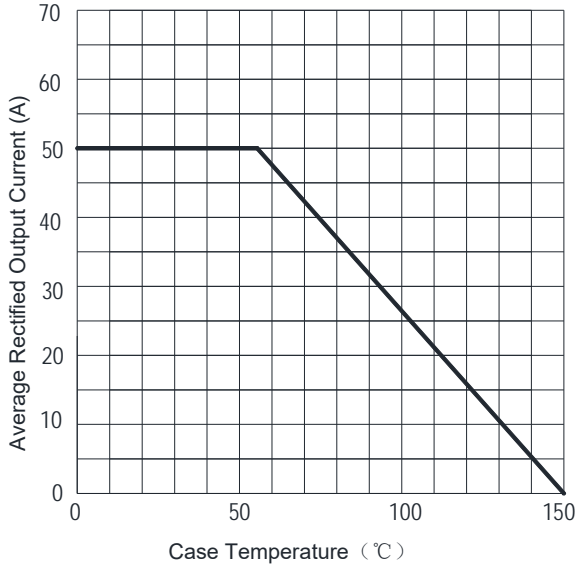


FIG2:Surge Forward Current Capability

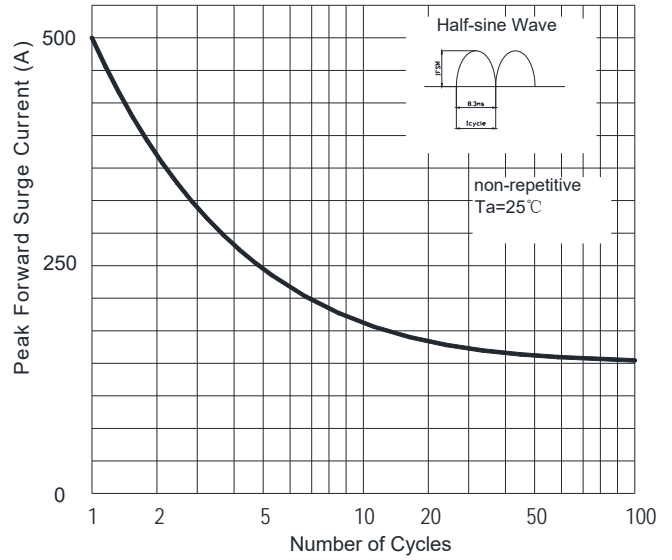


FIG3:Instantaneous Forward Voltage

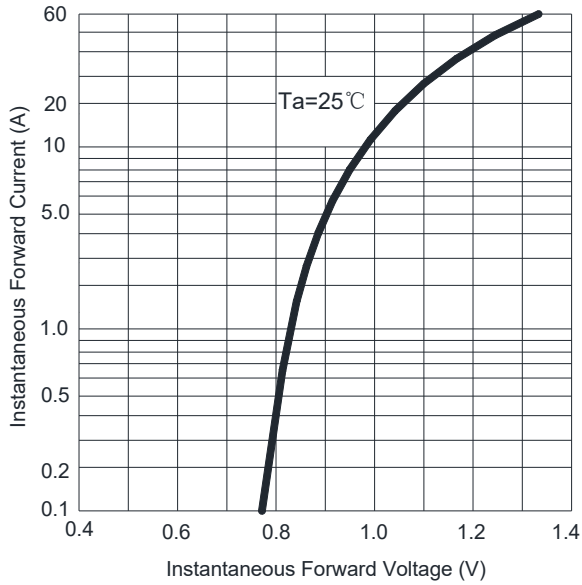


FIG4:Typical Reverse Characteristics

