

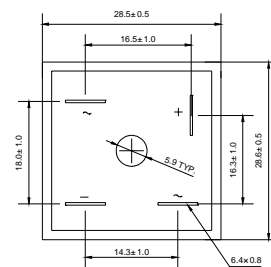
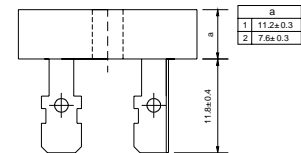


VOLTAGE RANGE: 1200 V
CURRENT: 15.0 A

KBPC

Features

- ◇ Rating to 1200V PRV
- ◇ Surge overload rating to 180 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



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%.

| | | KBPC1512 | 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 @ $T_A=25^\circ C$ | $I_{F(AV)}$ | 15.0 | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I_{FSM} | 240 | A |
| I^2t Rating for fusing @ $T_j=25^\circ C$ | I^2t | 239 | A ² S |
| Maximum instantaneous forward voltage @ 7.5 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 | 5.0 3.0 | μA 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

FIG.1 – PEAK FORWARD SURGE CURRENT

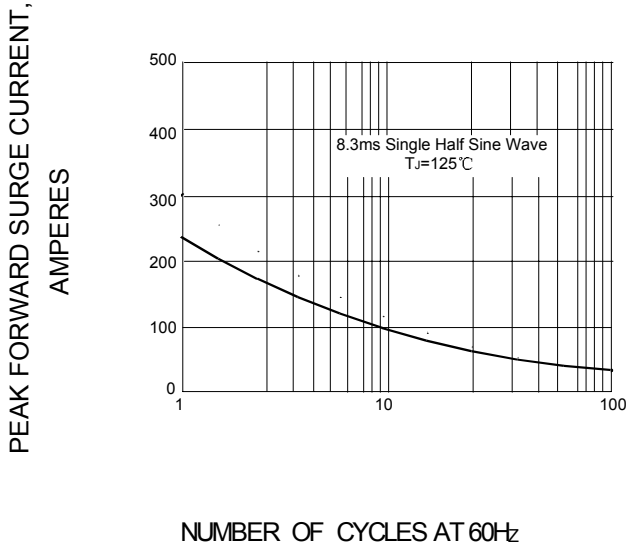


FIG.2 – FORWARD DERATING CURVE

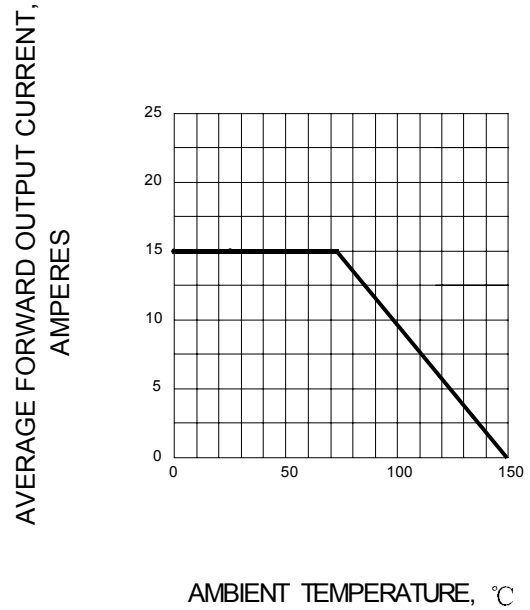


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

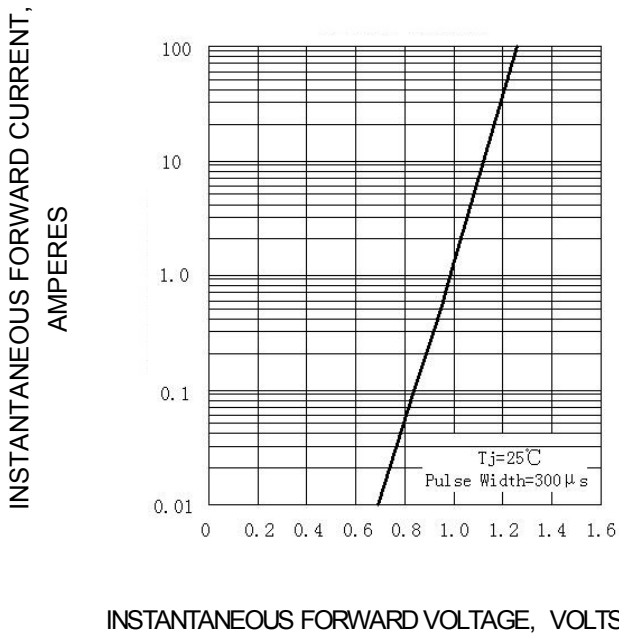


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

