1.5 A Bridge Rectifier

50 to 1000 V

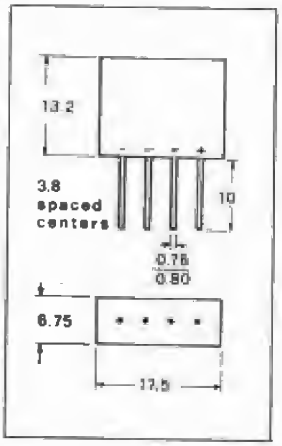
KBP Series

VOLTAGE RATINGS

Type	Maximum RMS Voltage	Maximum Recurrent Peak Reverse Voltage
KBP005	35 V	50 V
KBP02	140 V	200 V
KBP04	280 V	400 V
KBP06	420 V	600 V
KBP08	560 V	800 V
KBP10	700 V	1000 V

Suffix A indicates Avalanche Characteristic

CASE OUTLINE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature and 10 mm lead length unless otherwise specified.
Single-phase, half-wave, 50 Hz, resistive or inductive load.

Maximum Average Forward Rectified Current	1.5 A
Peak Forward Surge Current, 10 ms Single Half Sine Wave	50 A
Maximum Forward Voltage per Element at 1 A_{DC}	1.0 V
Maximum Reverse Current at 25°C	10 μA
Maximum Reverse Current at 100°C	1 mA
I^2t Rating for fusing (t <10 ms)	5 A^2s
Typical Thermal Resistance $R_{th\ J\text{-}A}$	25 °C/W
Operating Temperature Range	−55 to +125°C
Storage Temperature Range	−55 to +150°C

RATING AND CHARACTERISTIC CURVES

Fig. 1 – Typical forward characteristic

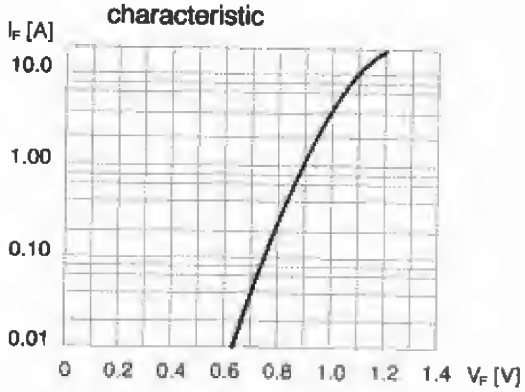
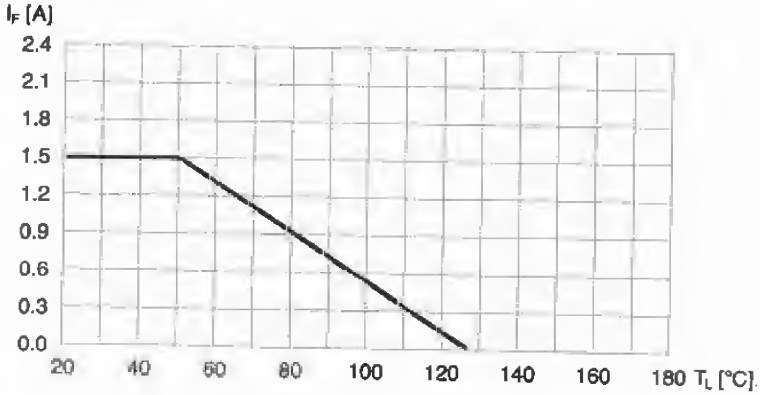


Fig. 2 – Forward derating curve



2 A Bridge Rectifier

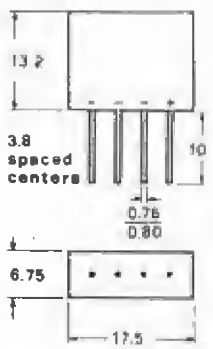
50 to 1000 V

2KBP Series

VOLTAGE RATINGS

Type	Maximum RMS Voltage	Maximum Recurrent Peak Reverse Voltage
2KBP005	35 V	50 V
2KBP02	140 V	200 V
2KBP04	280 V	400 V
2KBP06	420 V	600 V
2KBP08	560 V	800 V
2KBP10	700 V	1000 V

CASE OUTLINE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature and 10 mm lead length unless otherwise specified.
Single-phase, half-wave, 50 Hz, resistive or inductive load.

Maximum Average Forward Rectified Current	2 A
Peak Forward Surge Current, 10 ms Single Half Sine Wave	50 A
Maximum Forward Voltage per Element at 1 A_{DC}	1.0 V
Maximum Reverse Current at 25°C	10 μA
Maximum Reverse Current at 100°C	1.0 mA
I^2t Rating for fusing (t <10 ms)	5 A^2s
Typical Thermal Resistance $R_{th\,J\text{-}A}$	25 °C/W
Operating Temperature Range	−55 to +125°C
Storage Temperature Range	−55 to +150°C

RATING AND CHARACTERISTIC CURVES

Fig. 1 – Typical forward characteristic

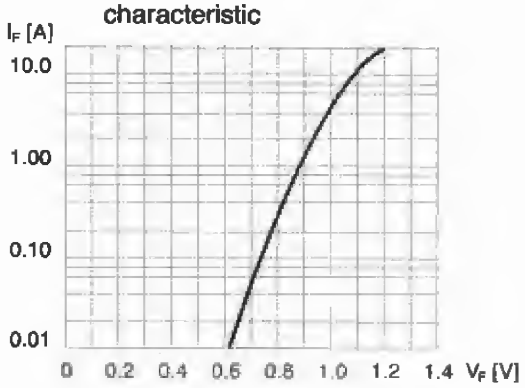


Fig. 2 – Forward derating curve