

## KBPC Series

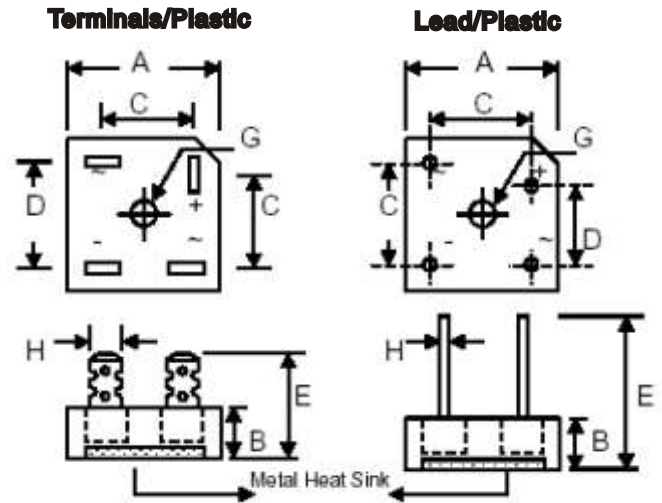
Reverse Voltage: 50 - 1000 Volts  
Forward Current: 10/15/25/35/50 Amp

### Features

- Surge overload 200 - 400 Amp peak
- Low forward voltage dro
- Mounting position: Any
- Electrically isolated base - 1800 Volts
- Solderable 0.25" FASTON terminals
- Materials used carries U/L recognition

### Mechanical Data

- Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Mounting: Through Hole for #10 Screw
- Weight: 30 grams (approx.)

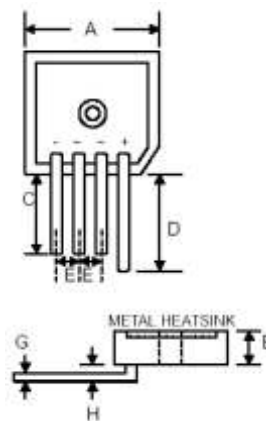


**KBPC**

**KBPC-W**

| Dim                 | TERMINALS                         |       | LEAD  |       |
|---------------------|-----------------------------------|-------|-------|-------|
|                     | Min                               | Max   | Min   | Max   |
| A                   | 28.40                             | 28.70 | 28.40 | 28.70 |
| B                   | 10.97                             | 11.23 | 10.97 | 11.23 |
| C                   | 15.70                             | 16.70 | 17.10 | 19.10 |
| D                   | 17.50                             | 18.50 | 10.90 | 11.90 |
| E                   | 22.86                             | 25.40 | 30.50 | -     |
| G                   | Hole for #10 screw, 5.08Ø Nominal |       |       |       |
| H                   | 6.35 Typical                      |       | 0.97Ø | 1.07Ø |
| All Dimension in mm |                                   |       |       |       |

### Single In-Line/Plastic



**KBPC-S**

| KBPC-S               |                |       |
|----------------------|----------------|-------|
| Dim                  | Min            | Max   |
| A                    | 28.40          | 28.70 |
| B                    | 10.97          | 11.23 |
| C                    | 13.90          | -     |
| D                    | 19.10          | -     |
| E                    | 5.10           | -     |
| G                    | 1.20 Ø Typical |       |
| H                    | 3.05           | 3.60  |
| All Dimensions in mm |                |       |

- "S" Suffix Designates Single In-Line
- "W" Suffix Designates Wire Leads
- No Suffix Designates Faston Terminals

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

| CHARACTERISTICS   | KBPC        | KBPC | KBPC | KBPC | KBPC | KBPC | KBPC | UNIT |
|---|-------------|------|------|------|------|------|------|------|
|   | 10005       | 1001 | 1002 | 1004 | 1006 | 1008 | 1010 |      |
|   | 15005       | 1501 | 1502 | 1504 | 1506 | 1508 | 1510 |      |
|   | 25005       | 2501 | 2502 | 2504 | 2506 | 2508 | 2510 |      |
|   | 35005       | 3501 | 3502 | 3504 | 3506 | 3508 | 3510 |      |
|   | 50005       | 5001 | 5002 | 5004 | 5006 | 5008 | 5010 |      |
| Maximum Recurrent Peak Reverse Voltage  | 50          | 100  | 200  | 400  | 600  | 800  | 1000 | V    |
| Maximum RMS Bridge Input Voltage  | 35          | 70   | 140  | 280  | 420  | 560  | 700  | V    |
| Maximum Forward Voltage Drop per element at 5.0/7.5/12.5/17.5/25.0A Peak                | 1.2         |      |      |      |      |      |      | V    |
| Maximum Reverse Current at Rate DC Blocking Voltage per element @ T <sub>A</sub> = 25°C | 10          |      |      |      |      |      |      | uA   |
| Operating Temperature Range T <sub>C</sub>  | -55 to +125 |      |      |      |      |      |      | °C   |
| Storage Temperature Range T <sub>A</sub>  | -55 to +150 |      |      |      |      |      |      | °C   |

## Maximum Ratings and Electrical Characteristics

| CHARACTERISTICS  | KBPC10005<br>- 1010 | KBPC15005<br>- 1510 | KBPC25005<br>- 2510 | KBPC35005<br>- 3510 | KBPC50005<br>- 5010 | UNIT |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|------|
| Maximum Average Forward Rectified Output Current @ T <sub>C</sub> = 55°C           | 10                  | 15                  | 25                  | 35                  | 50                  | A    |
| Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load | 200                 | 300                 | 300                 | 400                 | 400                 | A    |

NOTES: Also available on KBPC 10W/15W/25W/35W/50W series.

## Rating and Characteristic Curves (KBPC10, 15, 25, 35, 50)

Fig. 1 - Reverse Characteristics

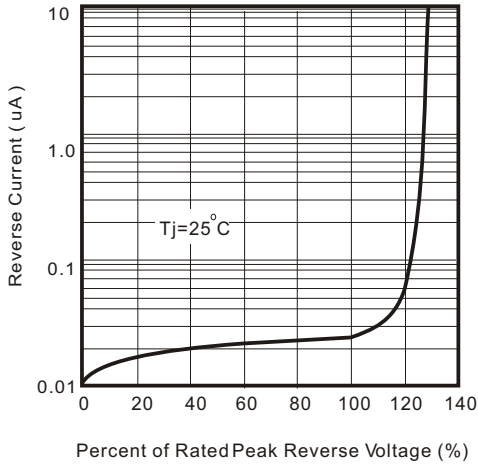


Fig. 2 - Forward Characteristics

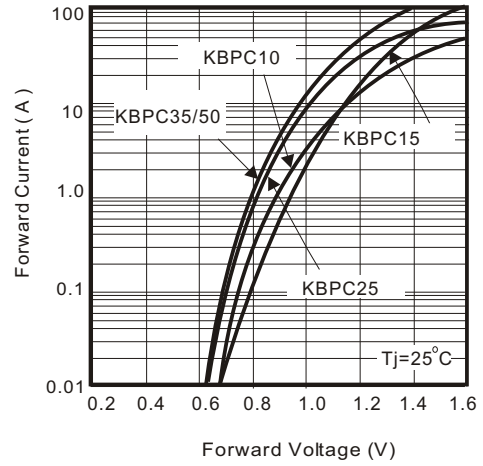


Fig. 3 - Non Repetitive Forward Surge Current

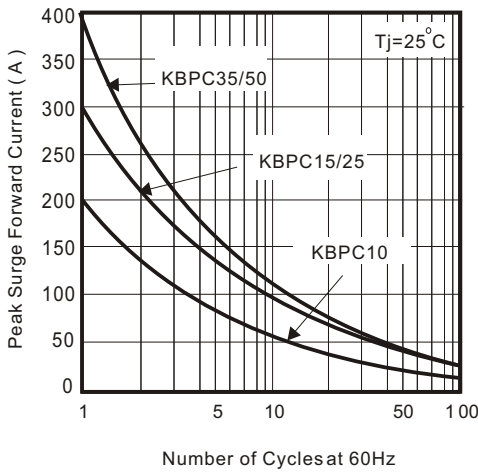


Fig. 4 - Current Derating Curve

