

### FEATURES

- Plastic material has Underwriters Laboratory flammability classification 94V-0
- Low leakage.
- Surge overload rating - 200 amperes peak.
- Ideal for printed circuit boards.
- Exceeds environmental standards of MIL - STD - 19500.

### MECHANICAL DATA

**Case** : Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.

**Terminals**: Leads, solderable per MIL - STD - 202, Method 208.

**Polarity** : Polarity symbols printed on body.

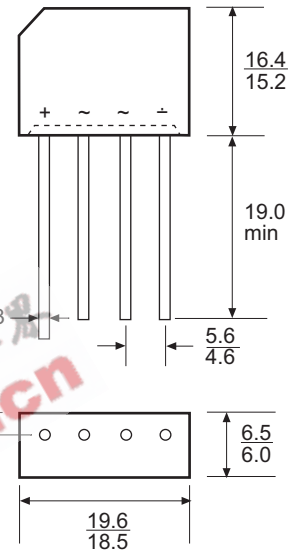
**Weight** : 0.2 ounce, 5.6 grams.

### VOLTAGE RANGE

50 to 1000 Volts PRV

### CURRENT

4.0 Amperes



Dimensions in millimetres

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

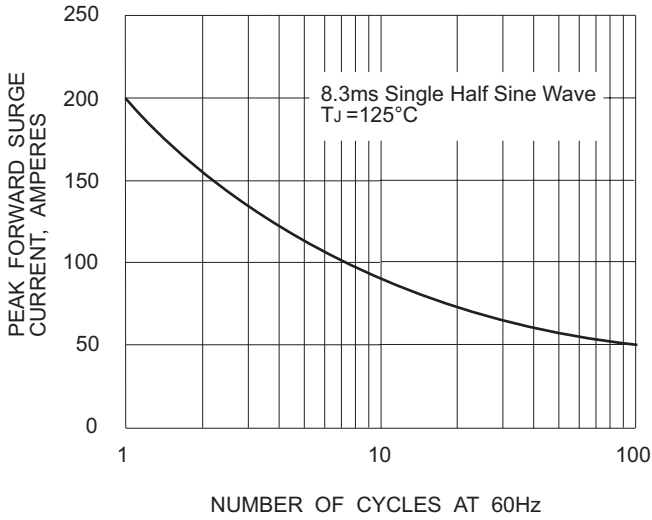
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

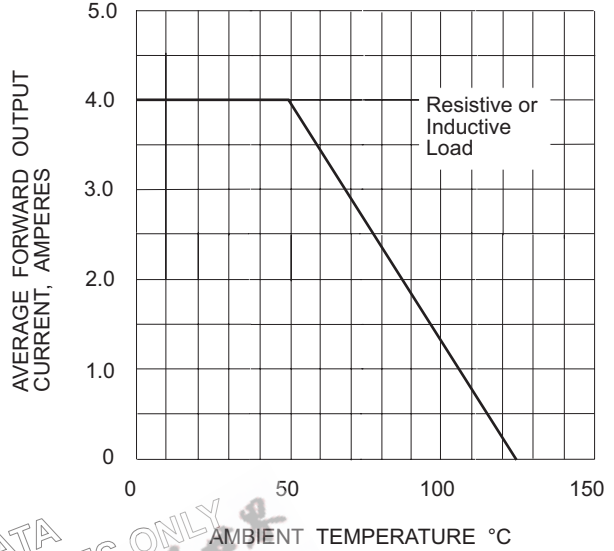
|  |                    | KBL005        | KBL01 | KBL02 | KBL04 | KBL06 | KBL08 | KBL10 |   |          |
|--|--------------------|---------------|-------|-------|-------|-------|-------|-------|---|----------|
| Maximum Recurrent Peak Reverse Voltage   | VRRM               | 50            | 100   | 200   | 400   | 600   | 800   | 1000  | V |          |
| Maximum Bridge Input Voltage RMS   | VRMS               | 35            | 70    | 140   | 280   | 420   | 560   | 700   | V |          |
| Maximum DC Blocking Voltage  | VDC                | 50            | 100   | 200   | 400   | 600   | 800   | 1000  | V |          |
| Maximum Average Forward Current at<br>T <sub>A</sub> = 50 °C (see Fig 2)                             | I <sub>F(AV)</sub> | 4.0           |       |       |       |       |       |       |   | A        |
| Peak Forward Surge Current, 8.3 ms single<br>half sine - wave superimposed on rated load (see Fig 1) | I <sub>FSM</sub>   | 200           |       |       |       |       |       |       |   | A        |
| Maximum Forward Voltage Drop<br>per Element at 3.0A (see Fig 3)                                      | V <sub>F</sub>     | 1.0           |       |       |       |       |       |       |   | V        |
| Maximum Reverse Current at Rated DC<br>Blocking Voltage per Element (see Fig 4)                      | I <sub>R</sub>     | 10.0<br>1.0   |       |       |       |       |       |       |   | μA<br>mA |
| Operating Temperature Range  | T <sub>J</sub>     | - 55 to + 125 |       |       |       |       |       |       |   | °C       |
| Storage Temperature Range  | T <sub>STG</sub>   | - 55 to + 150 |       |       |       |       |       |       |   | °C       |

# RATING AND CHARACTERISTIC CURVES KBLO SERIES

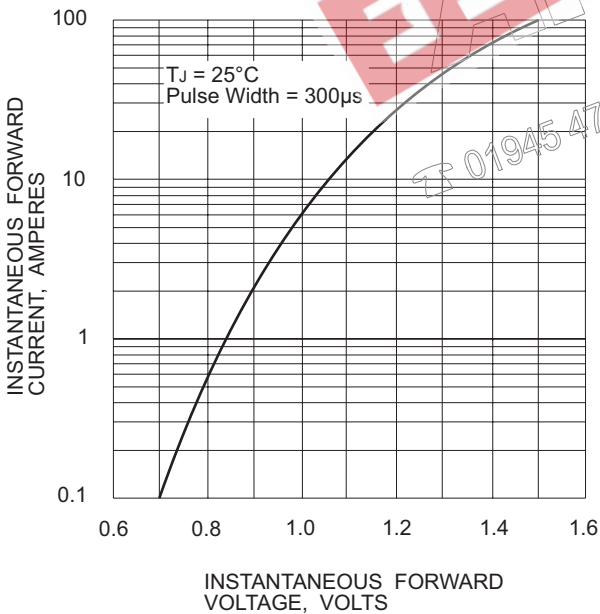
**FIG 1 : MAXIMUM NON-REPETITIVE SURGE CURRENT PER ELEMENT**



**FIG 2 : DERATING CURVE FOR RECTIFIED OUTPUT CURRENT**



**FIG 3 : TYPICAL FORWARD CHARACTERISTICS PER ELEMENT**



**FIG 4 : TYPICAL REVERSE CHARACTERISTICS PER ELEMENT**

