

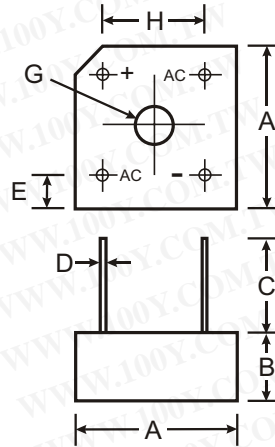
勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### Features

- High Current Capability
- Surge Overload Rating to 125A Peak
- High Case Dielectric Strength of 1500V
- Ideal for Printed Circuit Board Application
- Plastic Material: UL Flammability Classification Rating 94V-0
- UL Listed: Recognized Component Index, File Number E94661

### Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Marked on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 Inch-pounds Maximum
- Weight: 3.8 grams (approx)
- Marking: Type Number



| PBPC-3               |                   |       |
|----------------------|-------------------|-------|
| Dim                  | Min               | Max   |
| A                    | 14.73             | 15.75 |
| B                    | 5.84              | 6.86  |
| C                    | 19.00             | —     |
| D                    | 0.76∅ Typical     |       |
| E                    | 1.70              | 3.20  |
| G                    | Hole for #6 screw |       |
|                      | 3.60∅             | 4.00∅ |
| H                    | 10.30             | 11.30 |
| All Dimensions in mm |                   |       |

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

| Characteristic                                                                                                        | Symbol                                                 | PBPC 601 | PBPC 602 | PBPC 603 | PBPC 604 | PBPC 605    | PBPC 606 | PBPC 607 | Unit |                  |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------|----------|----------|----------|-------------|----------|----------|------|------------------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                | V <sub>RRM</sub><br>V <sub>RWM</sub><br>V <sub>R</sub> | 50       | 100      | 200      | 400      | 600         | 800      | 1000     | V    |                  |
| RMS Reverse Voltage                                                                                                   | V <sub>R(RMS)</sub>                                    | 35       | 70       | 140      | 280      | 420         | 560      | 700      | V    |                  |
| Average Rectified Output Current (Note 1) @ T <sub>C</sub> = 50°C<br>(Note 2) @ T <sub>C</sub> = 50°C                 | I <sub>O</sub>                                         |          |          |          |          | 6.0<br>4.0  |          |          |      | A                |
| Non-Repetitive Peak Forward Surge Current 8.3ms<br>single half sine-wave superimposed on rated load<br>(JEDEC Method) | I <sub>FSM</sub>                                       |          |          |          |          | 125         |          |          |      | A                |
| Forward Voltage (per element) @ I <sub>F</sub> = 3.0A                                                                 | V <sub>FM</sub>                                        |          |          |          |          | 1.1         |          |          |      | V                |
| Peak Reverse Current @ T <sub>C</sub> = 25°C<br>at Rated DC Blocking Voltage (per element) @ T <sub>C</sub> = 100°C   | I <sub>R</sub>                                         |          |          |          |          | 10<br>1.0   |          |          |      | μA<br>mA         |
| I <sup>2</sup> t Rating for Fusing (t < 8.3ms) (Note 3)                                                               | I <sup>2</sup> t                                       |          |          |          |          | 64          |          |          |      | A <sup>2</sup> s |
| Typical Junction Capacitance (Note 4)                                                                                 | C <sub>j</sub>                                         |          |          |          |          | 55          |          |          |      | pF               |
| Typical Thermal Resistance Junction to Case (per element)                                                             | R <sub>θJC</sub>                                       |          |          |          |          | 12.5        |          |          |      | °C/W             |
| Operating and Storage Temperature Range                                                                               | T <sub>j</sub> , T <sub>STG</sub>                      |          |          |          |          | -65 to +125 |          |          | °C   |                  |

- Notes:
1. Mounted on metal chassis.
  2. Mounted on PC board FR-4 material.
  3. Non-repetitive, for t > 1.0ms and < 8.3ms.
  4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

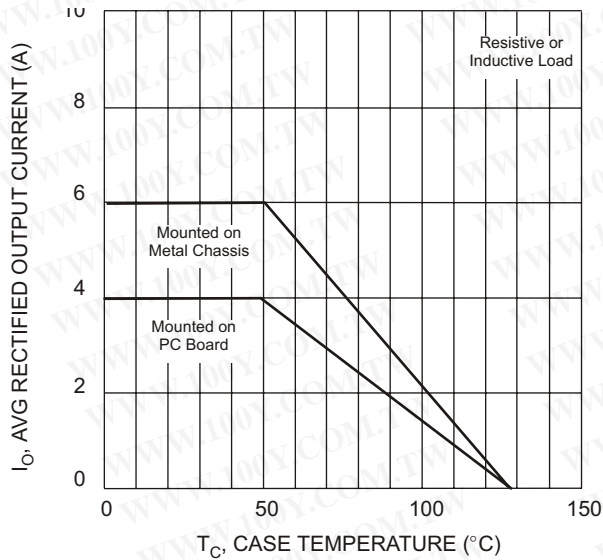


Fig. 1 Forward Current Derating Curve

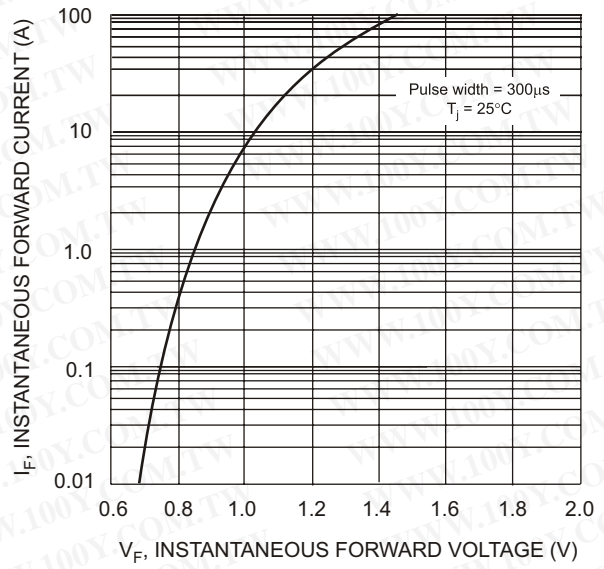


Fig. 2 Typical Forward Characteristics

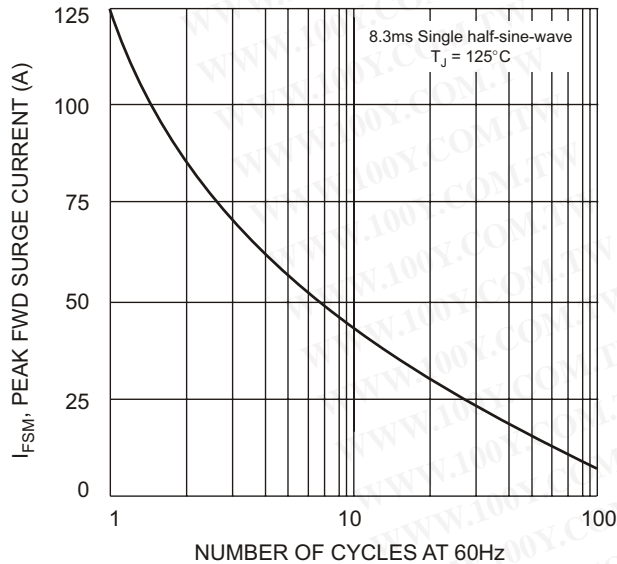


Fig. 3 Peak Forward Surge Current

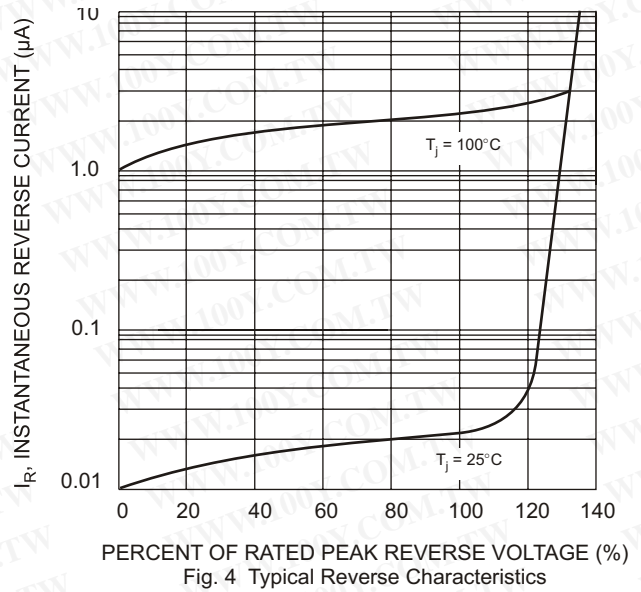


Fig. 4 Typical Reverse Characteristics

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