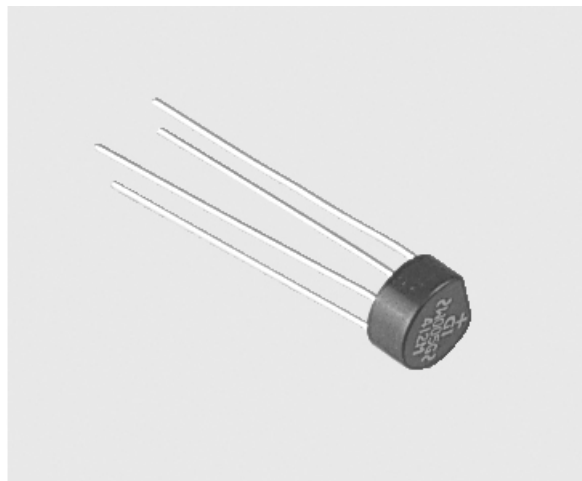


# 1W06, 1W10

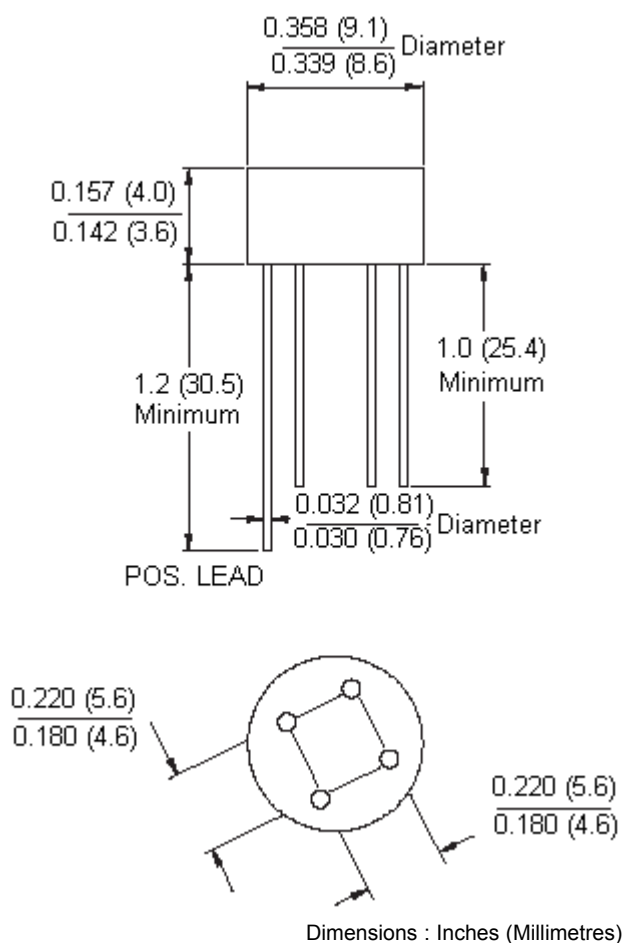
## Single Phase Bridge Rectifiers



### Features:

- Surge overload ratings to 30 ampere peak.
- Ideal for printed circuit board.
- Reliable low cost construction technique results in inexpensive product.
- High temperature : 260°C/10 seconds/0.375" (9.5mm) lead soldering guaranteed length at 5lbs., (2.3kg) tension.

### RB-15



### Mechanical Data :

Case : Moulded plastic.

Lead : Solder plated.

Polarity : As marked.



# 1W06, 1W10

## Single Phase Bridge Rectifiers



### Maximum Ratings and Electrical Characteristics:

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| Type Number                                                                                                | Symbol            | 1W06        | 1W10 | Unit |
|------------------------------------------------------------------------------------------------------------|-------------------|-------------|------|------|
| Maximum recurrent peak reverse voltage                                                                     | V <sub>RRM</sub>  | 600         | 1000 | V    |
| Maximum RMS voltage                                                                                        | V <sub>RMS</sub>  | 420         | 700  |      |
| Maximum DC blocking voltage                                                                                | V <sub>DC</sub>   | 600         | 1000 |      |
| Maximum average forward rectified current at T <sub>A</sub> = 50°C                                         | I <sub>(AV)</sub> | 1.0         |      | A    |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)          | I <sub>FSM</sub>  | 30          |      |      |
| Maximum instantaneous forward voltage at 1.0A.                                                             | V <sub>F</sub>    | 1.0         |      | V    |
| Maximum DC reverse current at T <sub>A</sub> = 25°C at rated DC blocking voltage at T <sub>A</sub> = 100°C | I <sub>R</sub>    | 10<br>500   |      | μA   |
| Typical thermal resistance (Note)                                                                          | RθJA<br>RθJL      | 36<br>13    |      | °C/W |
| Operating temperature range                                                                                | T <sub>J</sub>    | -55 to +125 |      | °C   |
| Storage temperature range                                                                                  | T <sub>STG</sub>  | -55 to +150 |      |      |

**NOTE:** Thermal Resistance from junction to ambient and from junction to lead mounted on PCB with 0.2" x 0.2" (5mm x 5mm) copper pads.

### Ratings and Characteristic Curves

Figure 1 Maximum Non-Repetitive Forward Surge Current per Bridge Element

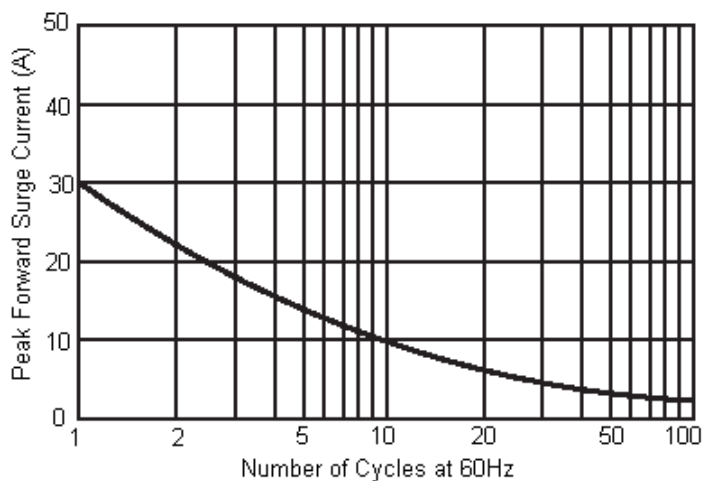
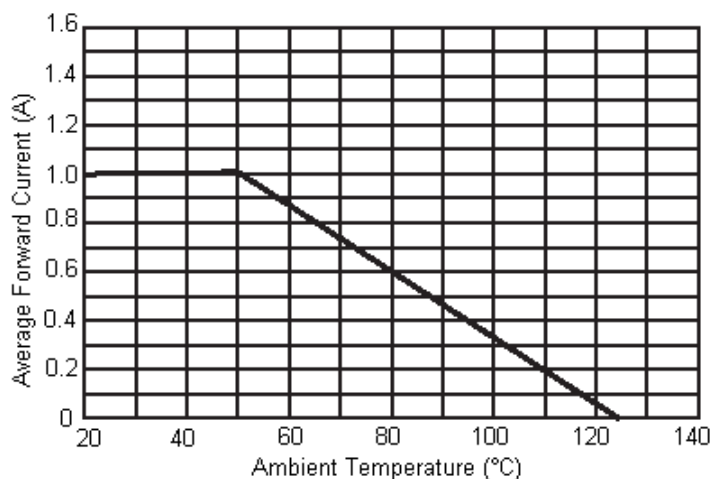


Figure 2 Maximum Forward Current Derating Curve



# 1W06, 1W10

## Single Phase Bridge Rectifiers



Figure 3 Typical Instantaneous Forward Characteristics per Bridge Element

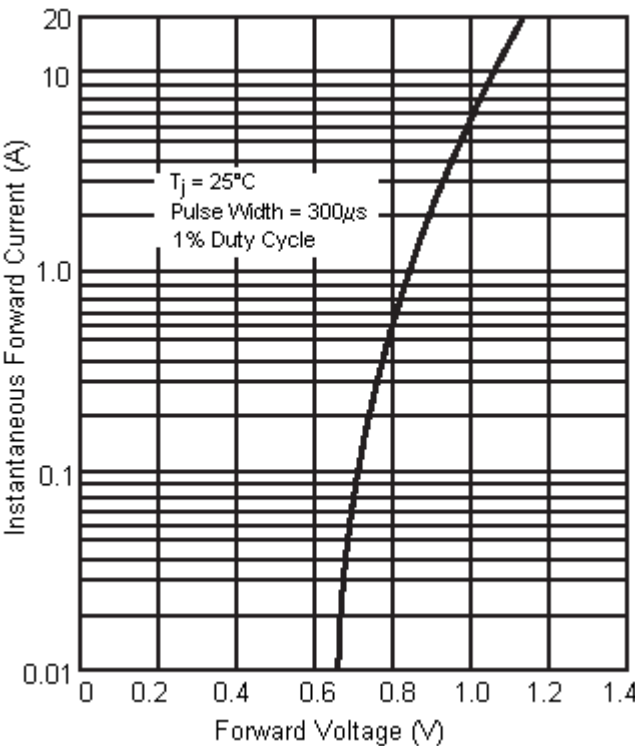
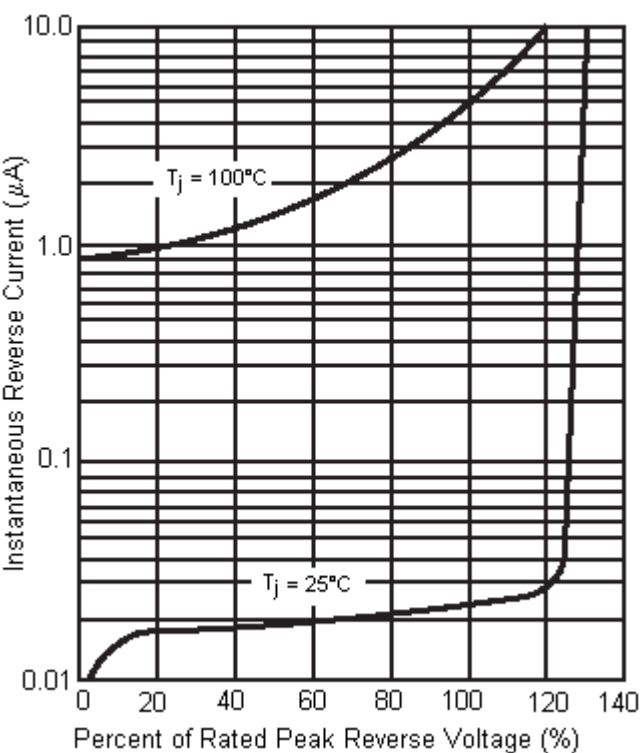


Figure 4 Typical Reverse Characteristics per Bridge Element



### Part Number Table

| VRRM (V) | Maximum DC Blocking Voltage ( $V_{DC}$ ) | Part Number |
|----------|------------------------------------------|-------------|
| 600      | 600                                      | 1W06        |
| 1000     | 1000                                     | 1W10        |

# 1W06, 1W10

## Single Phase Bridge Rectifiers



### Notes:

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