



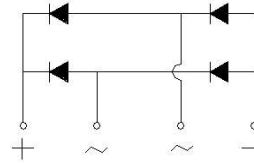
# Single Phase Silicon Bridge Rectifier

$V_{RRM} = 600\text{ V} - 1000\text{ V}$   
 $I_O = 1.5\text{ A}$

## Features

- Ideal for printed circuit board
- Low forward voltage drop
- Low leakage current
- Types from 600 V up to 1000 V VRRM
- Not ESD Sensitive

WOM Package



## Mechanical Data

Case: Molded plastic body  
 Terminals: Plated leads, solderable per MIL-STD-202  
 Method 208 guaranteed  
 Polarity: Color band on body denotes cathode end  
 Mounting position: Any  
 Weight: 1.07 grams

## Maximum ratings at $T_c = 25\text{ }^\circ\text{C}$ , unless otherwise specified

| Parameter                       | Symbol    | Conditions | W06M       | W08M       | W10M       | Unit             |
|---------------------------------|-----------|------------|------------|------------|------------|------------------|
| Repetitive peak reverse voltage | $V_{RRM}$ |            | 600        | 800        | 1000       | V                |
| RMS reverse voltage             | $V_{RMS}$ |            | 420        | 560        | 700        | V                |
| DC blocking voltage             | $V_{DC}$  |            | 600        | 800        | 1000       | V                |
| Operating temperature           | $T_j$     |            | -65 to 125 | -65 to 125 | -65 to 125 | $^\circ\text{C}$ |
| Storage temperature             | $T_{stg}$ |            | -65 to 150 | -65 to 150 | -65 to 150 | $^\circ\text{C}$ |

## Electrical characteristics at $T_c = 25\text{ }^\circ\text{C}$ , unless otherwise specified

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

| Parameter   | Symbol    | Conditions  | W06M      | W08M      | W10M      | Unit          |
|---|-----------|---|-----------|-----------|-----------|---------------|
| Maximum average forward rectified current                     | $I_O$     | $T_a = 50\text{ }^\circ\text{C}$                                      | 1.5       | 1.5       | 1.5       | A             |
| Peak forward surge current                                    | $I_{FSM}$ | $t_p = 8.3\text{ ms}$ , half sine                                     | 50        | 50        | 50        | A             |
| Maximum instantaneous forward voltage drop per bridge element | $V_F$     | $I_F = 1.0\text{ A}$  | 1.0       | 1.0       | 1.0       | V             |
| Maximum DC reverse current at rated DC blocking voltage       | $I_R$     | $T_a = 25\text{ }^\circ\text{C}$<br>$T_a = 100\text{ }^\circ\text{C}$ | 10<br>500 | 10<br>500 | 10<br>500 | $\mu\text{A}$ |

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

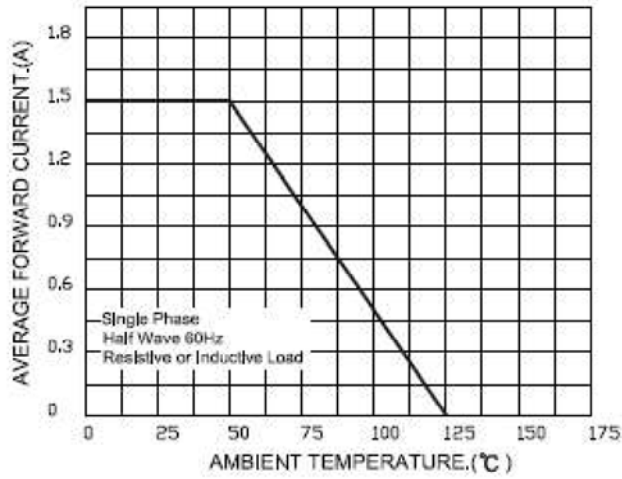


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

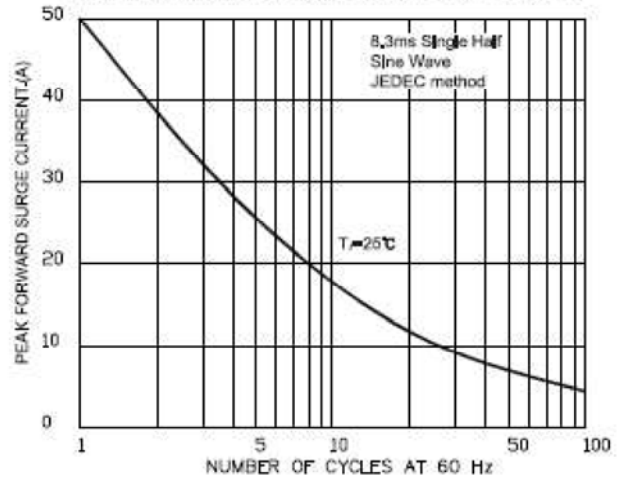


FIG.3-TYPICAL FORWARD CHARACTERISTICS

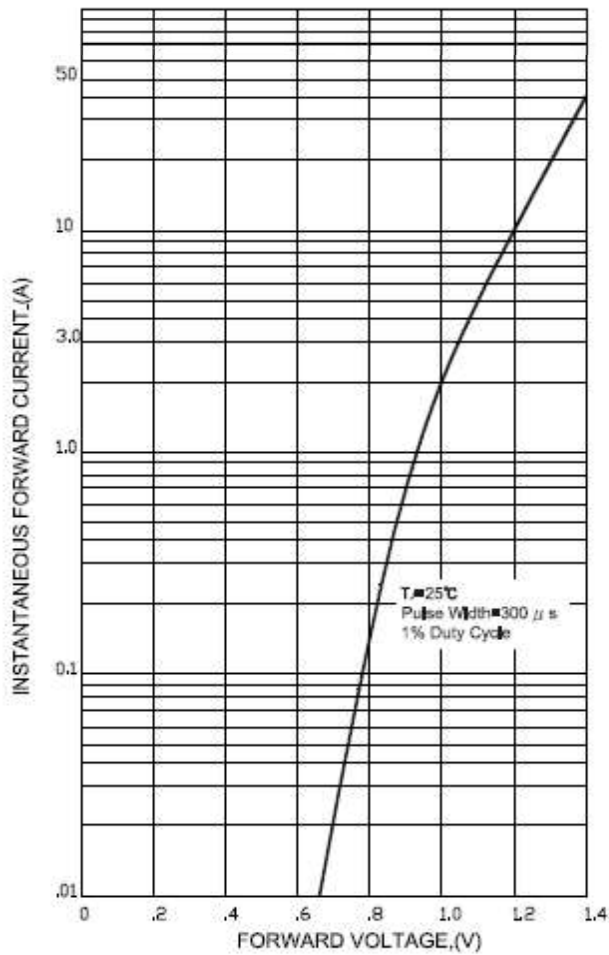
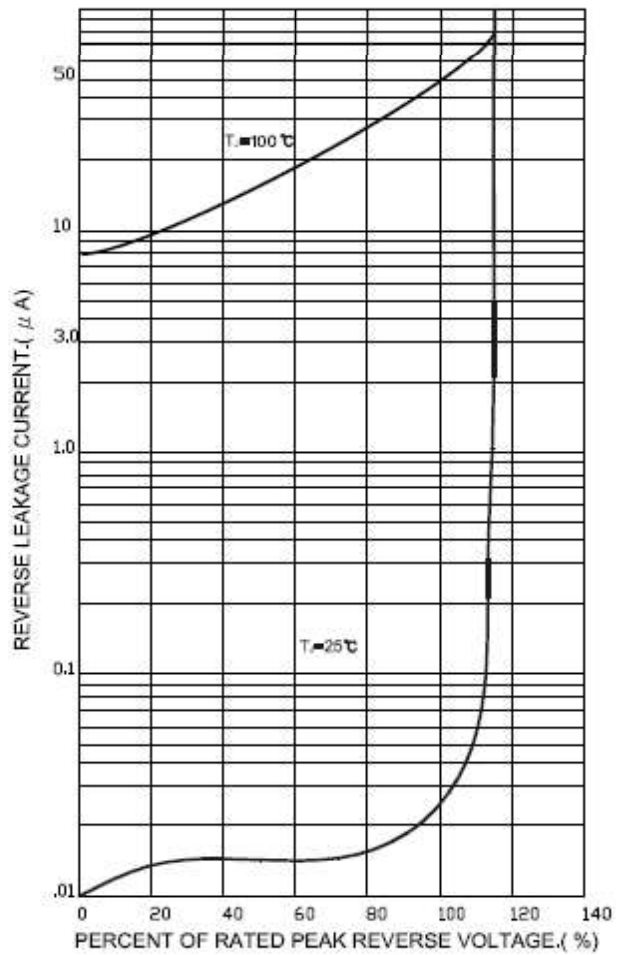
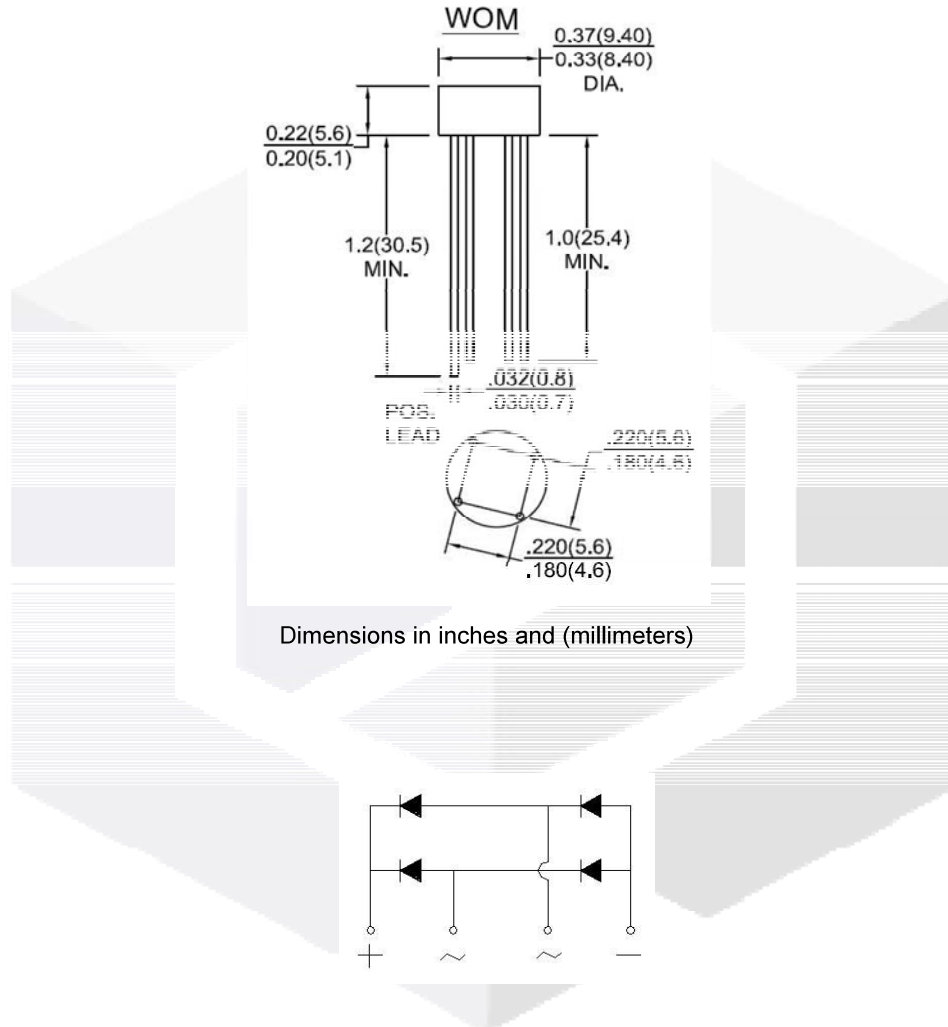


FIG.4-TYPICAL REVERSE CHARACTERISTICS





**Package dimensions and terminal configuration**

Product is marked with part number and terminal configuration.



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