

## Single Phase Silicon Bridge Rectifier

$V_{RRM} = 50 \text{ V} - 400 \text{ V}$

$I_O = 2 \text{ A}$

### Features

- Ideal for printed circuit board
- Low forward voltage drop
- Low leakage current
- High temperature soldering guaranteed: 250°C/ 10 seconds, 0.375" lead length, .5 lbs (2.3kg) tension
- Types from 50 V up to 400 V  $V_{RRM}$
- Not ESD Sensitive

### Mechanical Data

Case: Molded plastic body

Terminals: Plated leads, solderable per MIL-STD-202

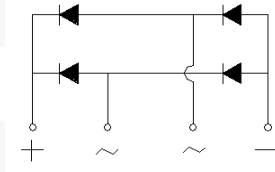
Method 208 guaranteed

Polarity: Color band on body denotes cathode end

Mounting position: Any

Weight: 1.1 grams

WOM Package



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

| Parameter                       | Symbol    | Conditions | 2W005M     | 2W01M      | 2W02M      | 2W04M      | Unit |
|---------------------------------|-----------|------------|------------|------------|------------|------------|------|
| Repetitive peak reverse voltage | $V_{RRM}$ |            | 50         | 100        | 200        | 400        | V    |
| RMS reverse voltage             | $V_{RMS}$ |            | 35         | 70         | 140        | 280        | V    |
| DC blocking voltage             | $V_{DC}$  |            | 50         | 100        | 200        | 400        | V    |
| Operating temperature           | $T_j$     |            | -65 to 125 | -65 to 125 | -65 to 125 | -65 to 125 | °C   |
| Storage temperature             | $T_{stg}$ |            | -65 to 150 | -65 to 150 | -65 to 150 | -65 to 150 | °C   |

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

Single phase, half sine wave, 60 Hz, resistive or inductive load

For capacitive load derate current by 20%

| Parameter                                                     | Symbol    | Conditions                                            | 2W005M    | 2W01M     | 2W02M     | 2W04M     | Unit          |
|---------------------------------------------------------------|-----------|-------------------------------------------------------|-----------|-----------|-----------|-----------|---------------|
| Maximum average forward rectified current                     | $I_O$     | $T_a = 50^\circ\text{C}$                              | 2         | 2         | 2         | 2         | A             |
| Peak forward surge current                                    | $I_{FSM}$ | $t_p = 8.3 \text{ ms}$ , half sine                    | 60        | 60        | 60        | 60        | A             |
| Maximum instantaneous forward voltage drop per bridge element | $V_F$     | $I_F = 2 \text{ A}$                                   | 1.1       | 1.1       | 1.1       | 1.1       | V             |
| Maximum DC reverse current at rated DC blocking voltage       | $I_R$     | $T_a = 25^\circ\text{C}$<br>$T_a = 100^\circ\text{C}$ | 10<br>500 | 10<br>500 | 10<br>500 | 10<br>500 | $\mu\text{A}$ |

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

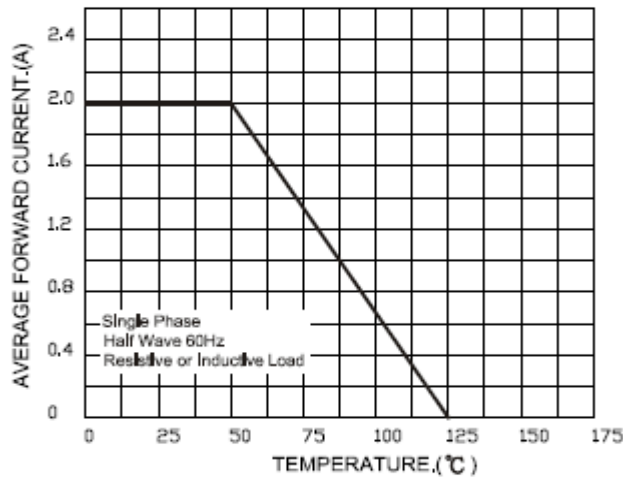


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

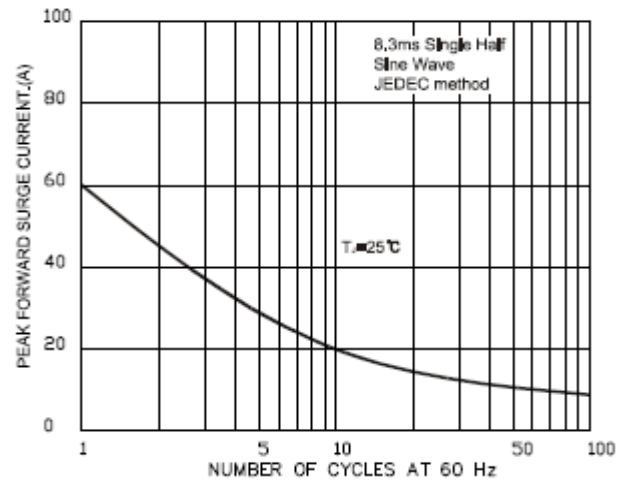


FIG.3-TYPICAL FORWARD CHARACTERISTICS

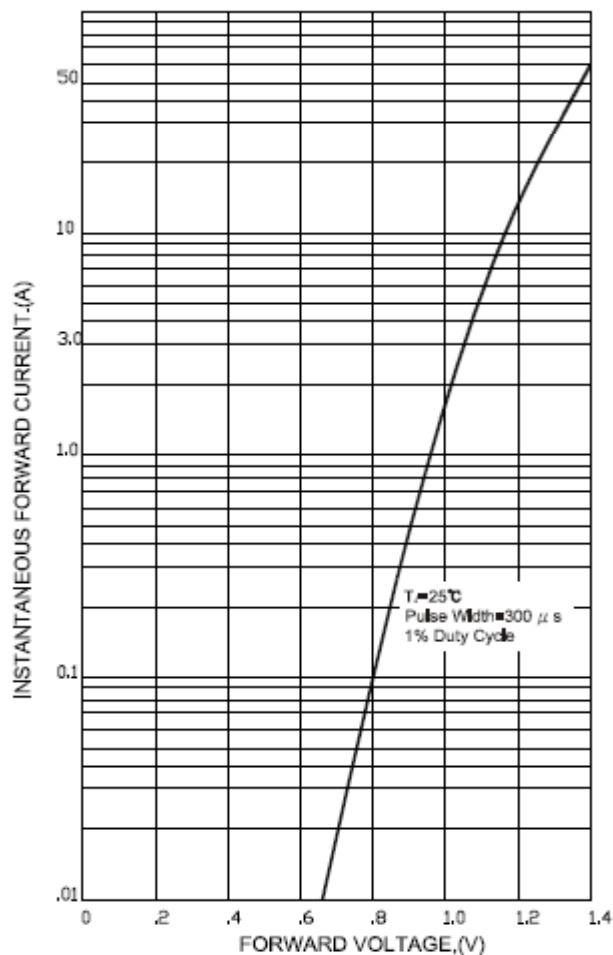
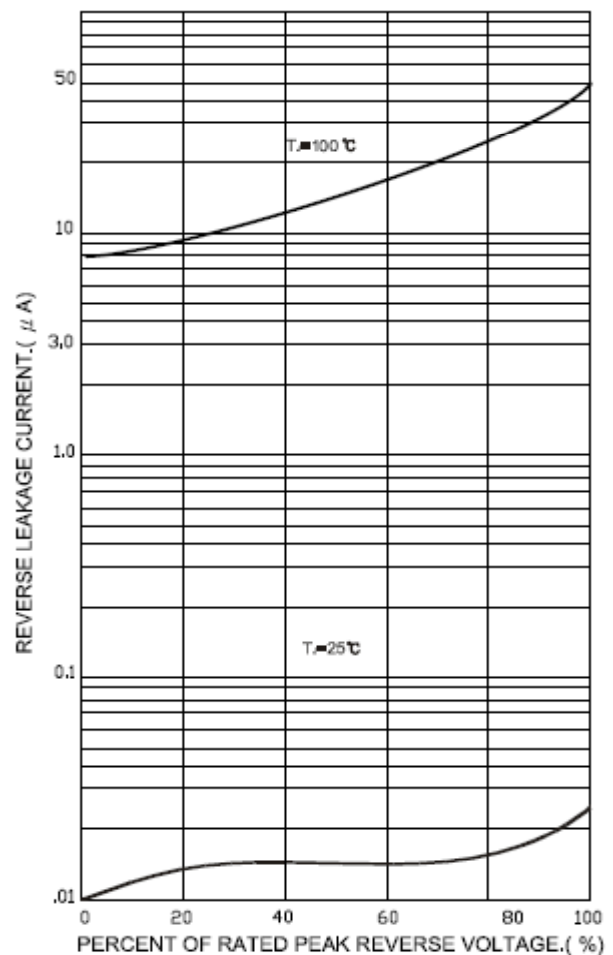
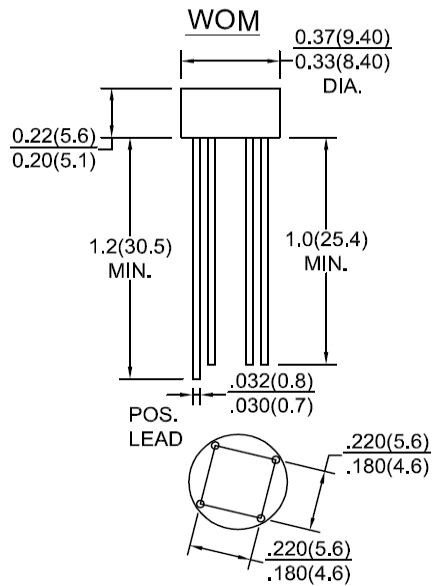


FIG.4-TYPICAL REVERSE CHARACTERISTICS



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)

