

Silicon Bridge Rectifier

 $V_{RRM} = 50\text{ V} - 1000\text{ V}$
 $I_F = 1.5\text{ A}$

Features

- Types up to 1000 V V_{RRM}
- Ideal for printed circuit board
- Low forward voltage drop
- High temperature soldering guaranteed: 250°C/ 10 seconds, 0.375" lead length
- Low leakage current

WOM Package


Mechanical Data

Case: Plastic

Polarity: Color band on body denotes cathode

Mounting position: Any

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

Method 208 guaranteed

Weight: 1.07 grams, 0.038 oz

Maximum ratings, at $T_j = 25\text{ }^\circ\text{C}$, 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 |
| Continuous forward current | I_F | $T_C \leq 50\text{ }^\circ\text{C}$ | 1.5 | 1.5 | 1.5 | A |
| Surge non-repetitive forward current, Half Sine Wave | $I_{F,SM}$ | $T_C = 25\text{ }^\circ\text{C}$, $t_p = 8.3\text{ ms}$ | 50 | 50 | 50 | A |
| 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 $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

| Parameter | Symbol | Conditions | W06M | W08M | W10M | Unit |
|-----------------------|--------|---|------|------|------|---------------|
| Diode forward voltage | V_F | $I_F = 1\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$ | 1 | 1 | 1 | V |
| Reverse current | I_R | $V_R = 50\text{ V}$, $T_j = 25\text{ }^\circ\text{C}$ | 10 | 10 | 10 | μA |
| | | $V_R = 50\text{ V}$, $T_j = 100\text{ }^\circ\text{C}$ | 500 | 500 | 500 | |

Thermal characteristics

| | | | | | | |
|-------------------------------------|------------|--|-------|-------|-------|--------------------|
| Thermal resistance, junction - case | R_{thJC} | | 36.00 | 36.00 | 36.00 | $^\circ\text{C/W}$ |
|-------------------------------------|------------|--|-------|-------|-------|--------------------|

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

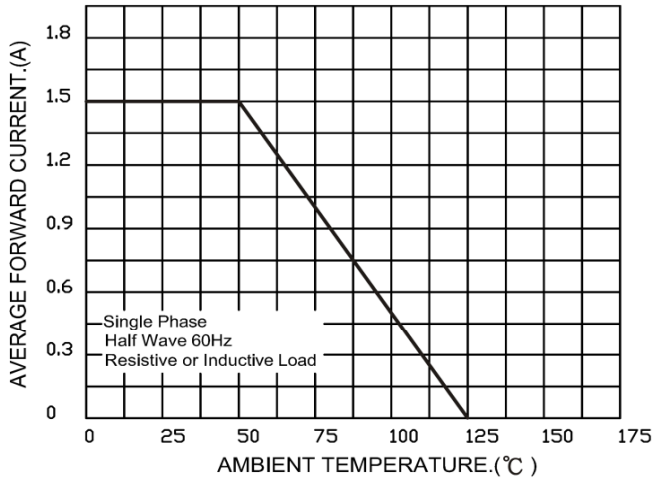


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

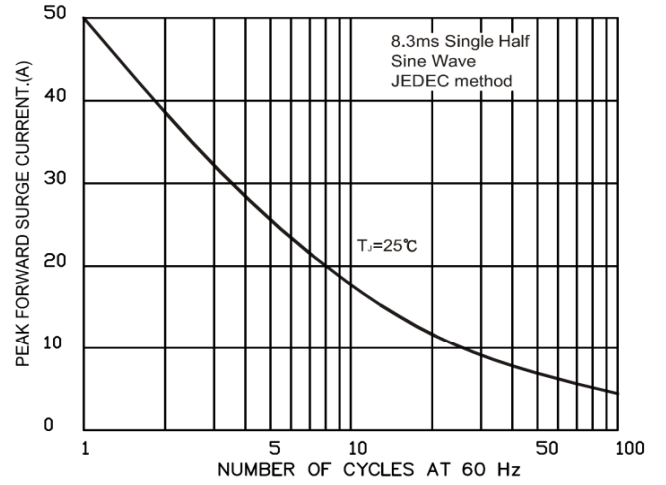


FIG.3-TYPICAL FORWARD CHARACTERISTICS

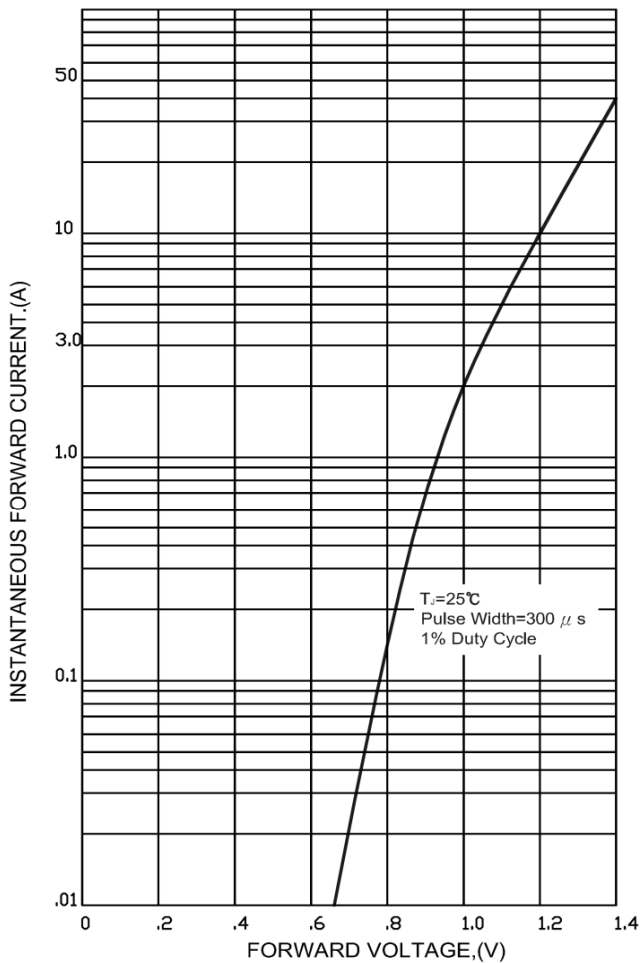


FIG.4-TYPICAL REVERSE CHARACTERISTICS

