

## Silicon Bridge Rectifiers

**W005M--W10M**

### FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Surge overload rating to 50 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Mounting Position: Any
- Glass passivated chip junctions



Lead-free

### Maximum Ratings (@TA = 25°C unless otherwise specified)

| Characteristic  | Symbol      | W005M | W01M | W02M | W04M | W06M | W08M | W10M | UNITS |
|---|-------------|-------|------|------|------|------|------|------|-------|
| Maximum recurrent peak reverse voltage  | $V_{RRM}$   | 50    | 100  | 200  | 400  | 600  | 800  | 1000 | V     |
| Maximum RMS voltage   | $V_{RMS}$   | 35    | 70   | 140  | 280  | 420  | 560  | 700  | V     |
| Maximum DC blocking voltage   | $V_{DC}$    | 50    | 100  | 200  | 400  | 600  | 800  | 1000 | V     |
| Maximum average forward Output current<br>@TA=50°C                                      | $I_{F(AV)}$ | 1.5   |      |      |      |      |      |      | A     |
| Peak forward surge current<br>8.3ms single half-sine-wave<br>superimposed on rated load | $I_{FSM}$   | 50.0  |      |      |      |      |      |      | A     |

### Thermal Characteristics

| Characteristic                       | Symbol    | W005M           | W01M | W02M | W04M | W06M | W08M | W10M | UNITS |
|--------------------------------------|-----------|-----------------|------|------|------|------|------|------|-------|
| Operating junction temperature range | $T_J$     | - 55 ---- + 125 |      |      |      |      |      |      | °C    |
| Storage temperature range            | $T_{STG}$ | - 55 ---- + 150 |      |      |      |      |      |      | °C    |

### Electrical Characteristics (@TA = 25°C unless otherwise specified)

| Characteristic   | Symbol | W005M       | W01M | W02M | W04M | W06M | W08M | W10M | UNITS      |
|--|--------|-------------|------|------|------|------|------|------|------------|
| Maximum instantaneous forward voltage<br>@1.0A                             | $V_F$  | 1.0         |      |      |      |      |      |      | V          |
| Maximum reverse current @TA=25°C<br>at rated DC blocking voltage @TA=100°C | $I_R$  | 10.0<br>1.0 |      |      |      |      |      |      | μ A<br>m A |



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**PACKAGE OUTLINE DIMENSIONS**

| WOM                  |                           |        |
|----------------------|---------------------------|--------|
| Dim                  | Min                       | Max    |
| A                    | Ø 8.70                    | Ø 9.10 |
| B                    | 5.00                      | 5.60   |
| E                    | Ø0.60                     | Ø0.80  |
| F                    | 23.0min (长) \18.50min (短) |        |
| F1                   | 2.0min                    |        |
| K                    | 4.70                      | 5.30   |
| All Dimensions in mm |                           |        |

**PACKAGE INFORMATION**

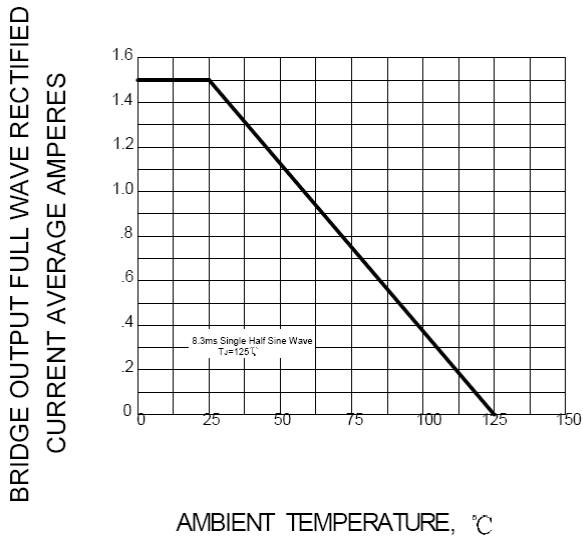
| Device      | Package | Shipping      |
|-------------|---------|---------------|
| W005M--W10M | WOM     | 1000Units/Box |



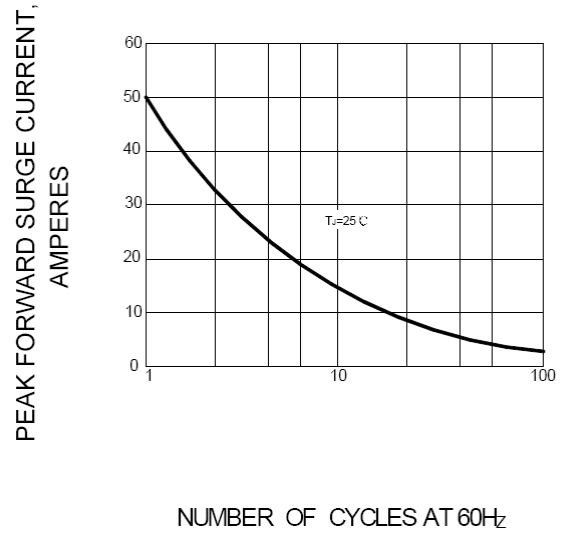
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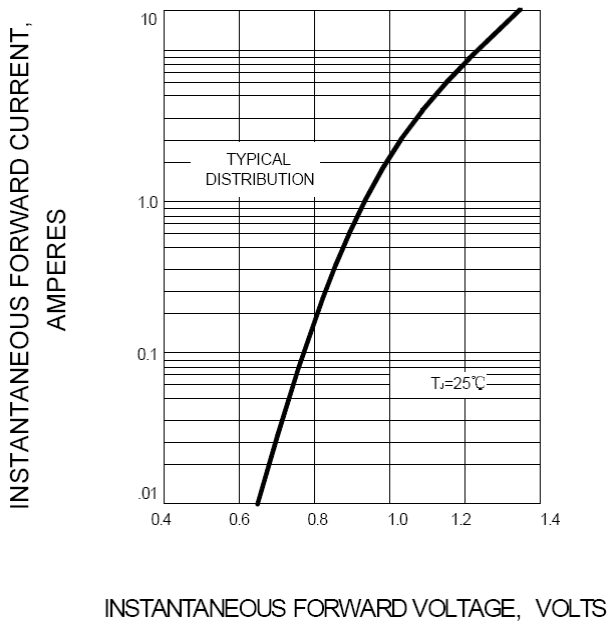
**FIG.1 – DERATING OUTPUT RECTIFIED CURRENT**



**FIG.2 – MAXIMUM FORWARD SURGE CURRENT**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**

