

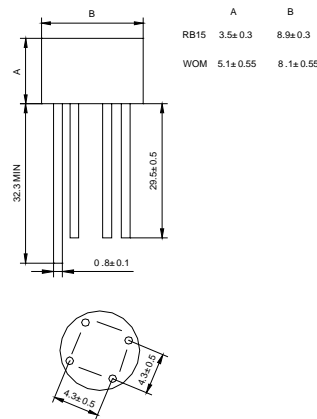
**SILICON BRIDGE RECTIFIERS**

**VOLTAGE RANGE: 50 --- 1000 V**  
**CURRENT: 1.5 A**

**FEATURES**

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 50 Amperes peak
- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◇ Lead solderable per MIL-STD-250 method 2026
- ◇ Plastic material has UL flammability recognition 94V-O
- ◇ Weight: 0.050 ounces, 1.42 grams

**WOM**



Dimensions in millimeters

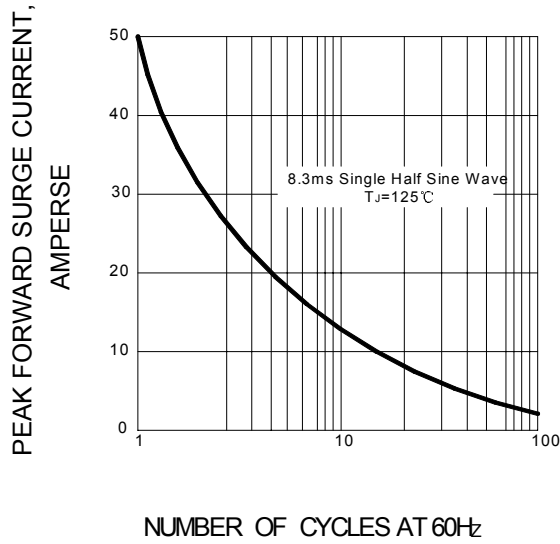
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

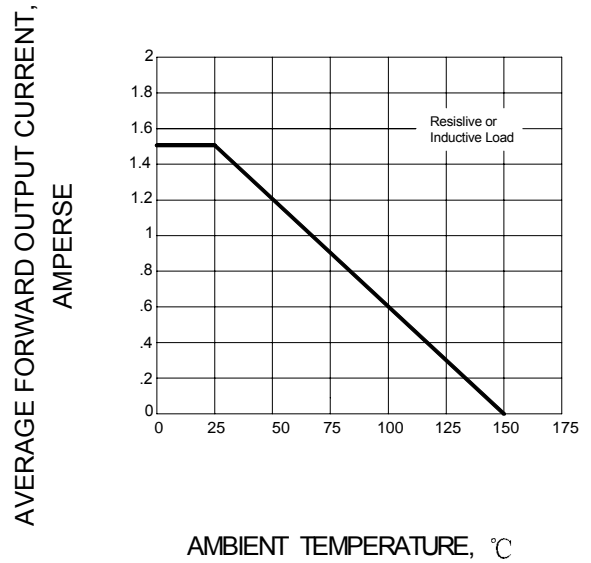
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

|   |             | W005L           | W01L | W02L | W04L | W06L | W08L | W10L | 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 @ $T_A=25^\circ C$                                   | $I_{F(AV)}$ | 1.5             |      |      |      |      |      |      | A             |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load           | $I_{FSM}$   | 50.0            |      |      |      |      |      |      | A             |
| Maximum instantaneous forward voltage at 1.0 A  | $V_F$       | 1.0             |      |      |      |      |      |      | V             |
| Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$ | $I_R$       | 5.0<br>0.5      |      |      |      |      |      |      | $\mu A$<br>mA |
| Operating junction temperature range  | $T_J$       | - 55 ---- + 150 |      |      |      |      |      |      | °C            |
| Storage temperature range   | $T_{STG}$   | - 55 ---- + 150 |      |      |      |      |      |      | °C            |

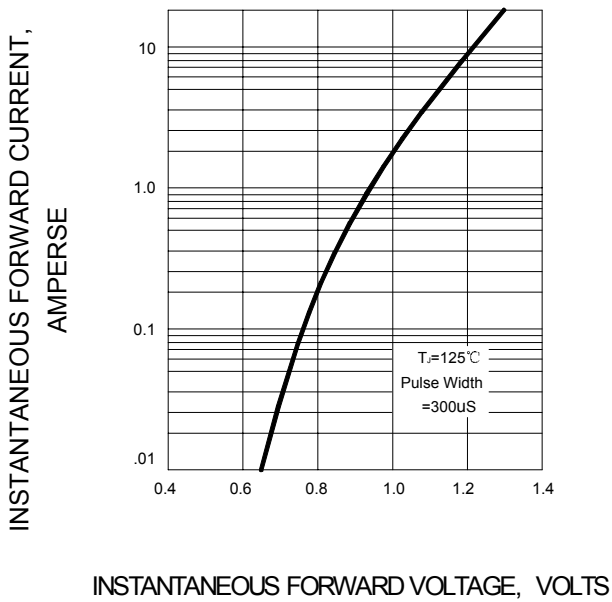
**FIG.1 – PEAK FORWARD SURGE CURRENT**



**FIG.2 – FORWARD DERATING CURVE**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**

