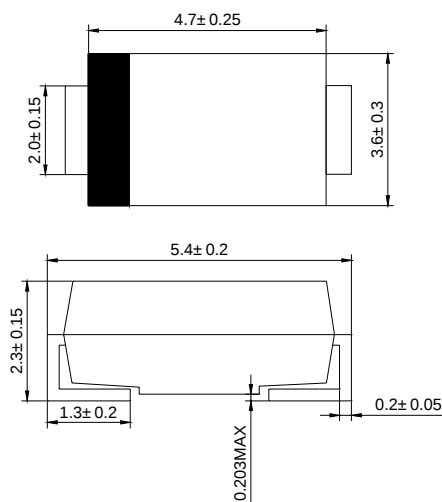


## WW69E



REVERSE VOLTAGE: 20 - 100 V  
FORWARD CURRENT: 3.0 A

### SMB



Dimensions in millimeters

### Features

- ◇ Schottky barrier rectifier
- ◇ Guardring protection
- ◇ Low forward voltage
- ◇ Reverse energy tested
- ◇ High current capability
- ◇ Extremely low thermal resistance

### Mechanical Data

- ◇ Case: SMB molded plastic body
- ◇ Polarity: Color band denotes cathode end
- ◇ Mounting position: Any
- ◇ Weight: 0.003 ounces, 0.093 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

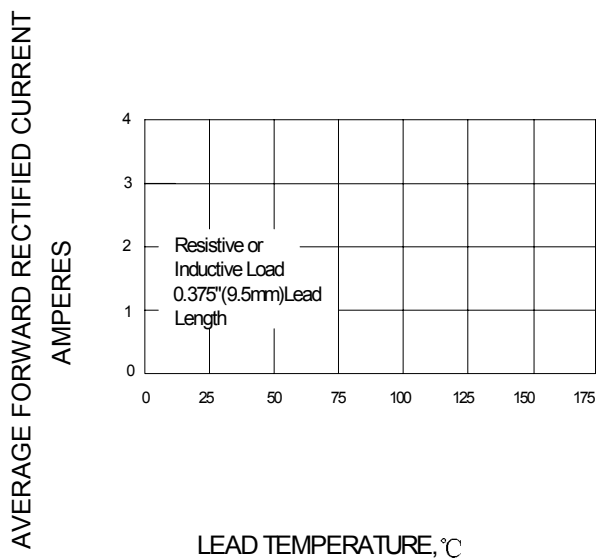
|                                                                                                       |                    | VW65E          | VW66E | VW67E | VW68E | VW69E | VW71E | VW72E | VW643E | UNITS |
|-------------------------------------------------------------------------------------------------------|--------------------|----------------|-------|-------|-------|-------|-------|-------|--------|-------|
| Maximum repetitive peak reverse voltage                                                               | V <sub>RRM</sub>   | 20             | 30    | 40    | 50    | 60    | 80    | 90    | 100    | V     |
| Maximum RMS voltage                                                                                   | V <sub>RWS</sub>   | 14             | 21    | 28    | 35    | 42    | 56    | 63    | 70     | V     |
| Maximum DC blocking voltage                                                                           | V <sub>DC</sub>    | 20             | 30    | 40    | 50    | 60    | 80    | 90    | 100    | V     |
| Maximum average forward rectified current at T <sub>L</sub> =90°C                                     | I <sub>F(AV)</sub> | 3.0            |       |       |       |       |       |       |        | A     |
| Peak forward surge current 8.3ms single half-sine-wave                                                | I <sub>FSM</sub>   | 100.0          |       |       |       |       |       |       |        | A     |
| Maximum instantaneous forward voltage at I <sub>FM</sub> =3.0A (NOTE1)                                | V <sub>F</sub>     | 0.50           |       |       | 0.75  |       | 0.85  |       |        | V     |
| Maximum DC reverse current T <sub>J</sub> =25°C<br>at rated DC blocking voltage T <sub>J</sub> =125°C | I <sub>R</sub>     | 0.5            |       |       |       |       |       |       |        | m A   |
|                                                                                                       |                    | 20             |       |       | 10    |       |       |       |        |       |
| Maximum thermal resistance                                                                            | R <sub>θ JL</sub>  | 17.0           |       |       |       |       |       |       |        | °C/W  |
| Operating temperature range                                                                           | T <sub>J</sub>     | - 55 ---- +125 |       |       |       |       |       |       |        | °C    |
| Storage temperature range                                                                             | T <sub>STG</sub>   | - 55 ---- +150 |       |       |       |       |       |       |        | °C    |

NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

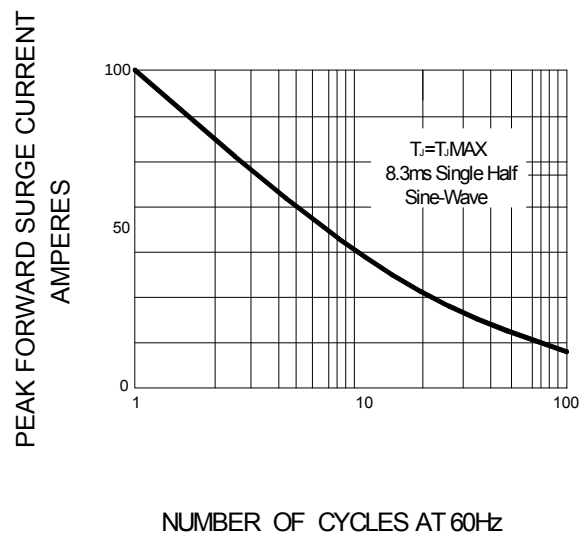
## WW69E

### Ratings AND Characteristic Curves

**FIG.1 -- FORWARD DERATING CURVE**



**FIG.2 -- PEAK FORWARD SURGE CURRENT**



**FIG.3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**

