

# Schottky barrier diode

## RSX101VA-30

**●Applications**

General rectification

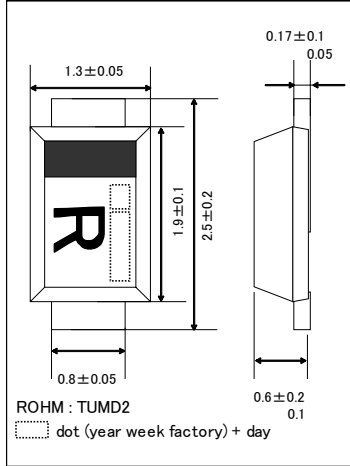
**●Features**

- 1) Small mold type. (TUMD2)
- 2) Low  $V_F$
- 3) High reliability.

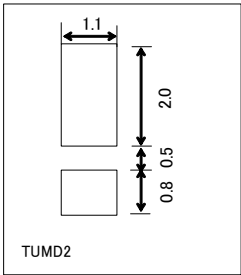
**●Construction**

Silicon epitaxial planar

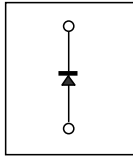
**● External dimensions (Unit : mm)**



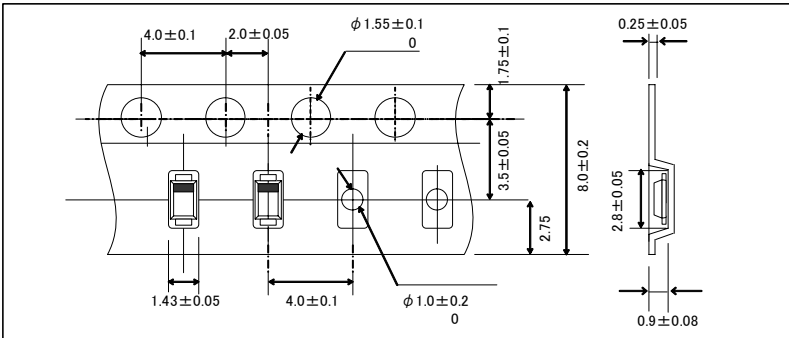
**● Land size figure (Unit : mm)**



**●Structure**



**● Taping specifications (Unit : mm)**



**●Absolute maximum ratings (Ta=25°C)**

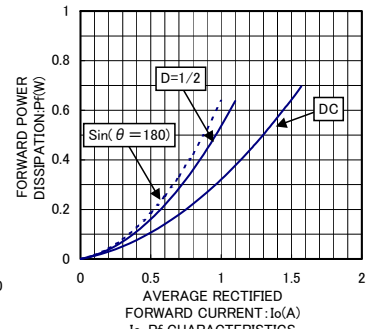
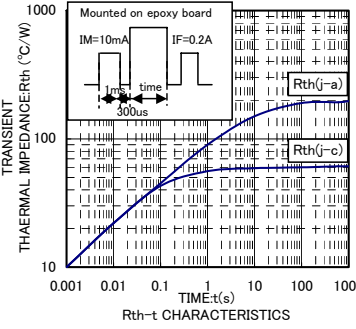
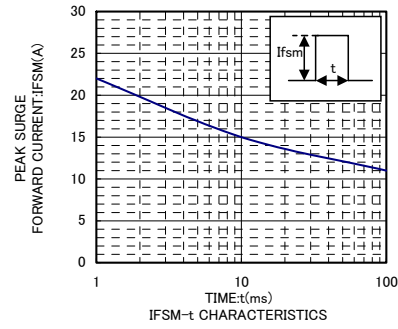
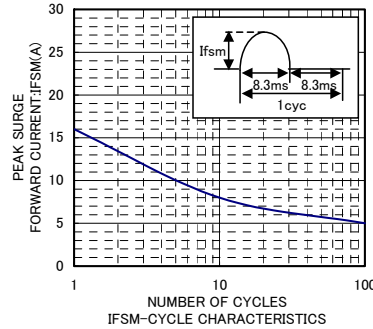
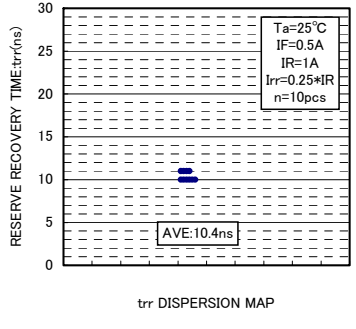
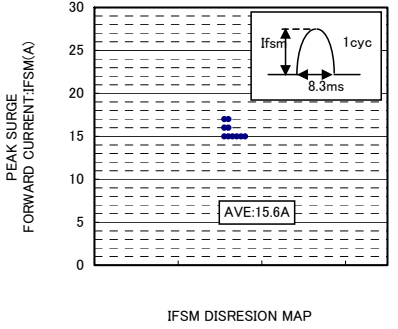
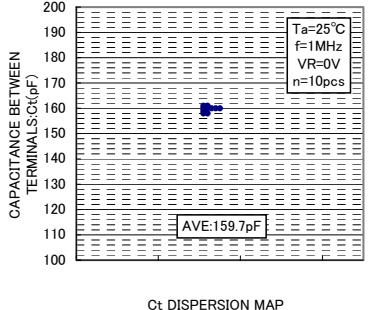
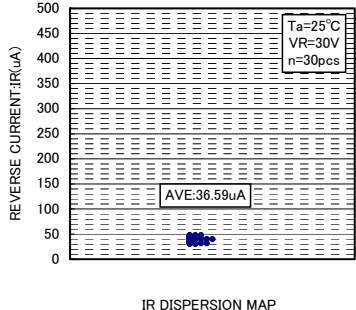
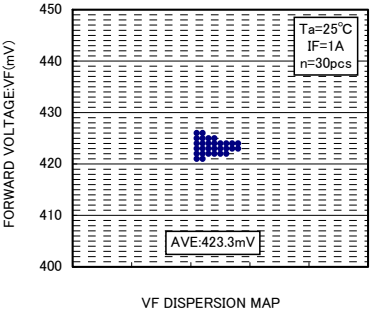
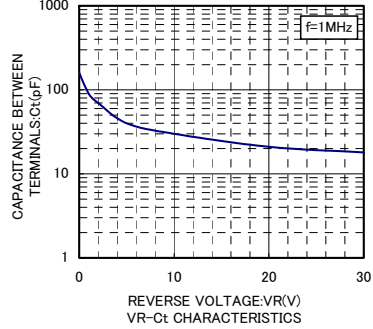
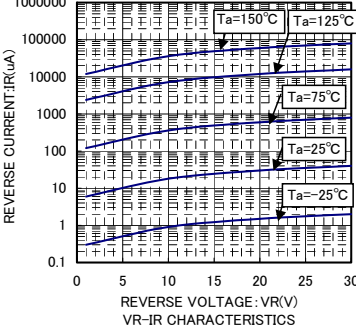
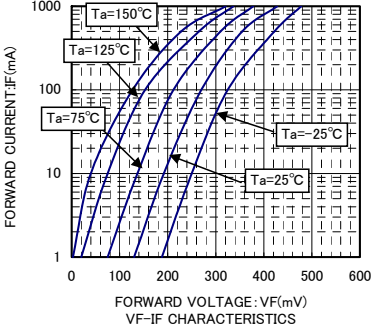
| Parameter                               | Symbol    | Limits      | Unit |
|---|-----------|-------------|------|
| Reverse voltage (repetitive peak)       | $V_{RM}$  | 30          | V    |
| Reverse voltage (DC)                    | $V_R$     | 30          | V    |
| Average rectified forward current       | $I_o$     | 1           | A    |
| Forward current surge peak (60Hz·1 cyc) | $I_{FSM}$ | 5           | A    |
| Junction temperature                    | $T_j$     | 150         | °C   |
| Storage temperature                     | $T_{stg}$ | -40 to +150 | °C   |

**●Electrical characteristics (Ta=25°C)**

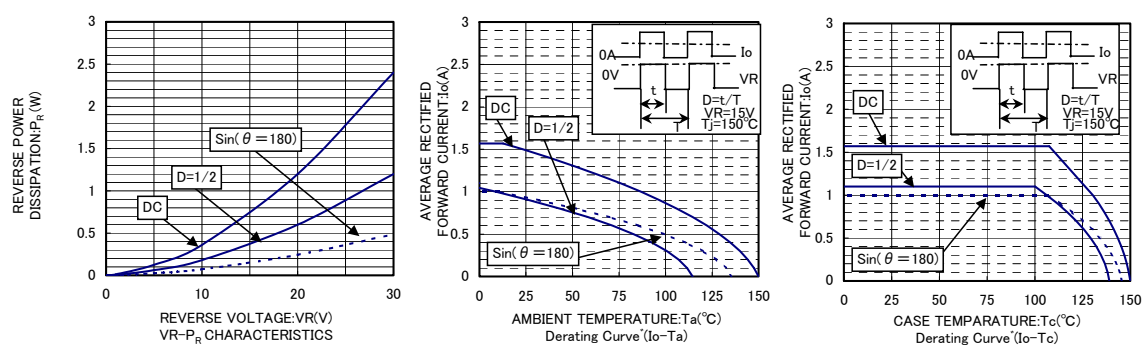
| Parameter       | Symbol   | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|----------|------|------|------|------|------------|
| Forward voltage | $V_F$    | -    | 0.43 | 0.47 | V    | $I_F=1A$   |
| Reverse current | $I_{R1}$ | -    | 15   | 40   | μA   | $V_R=5V$   |
|                 | $I_{R2}$ | -    | 40   | 200  | μA   | $V_R=30V$  |

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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