# Switching diode **RF051VA1S**

# Applications

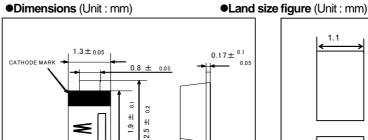
High frequency rectification

### ● Features

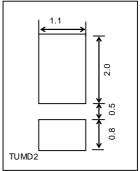
- 1) Surface mounting type (TUMD2)
- 2) Very fast recovery.
- 3) High reliability.

#### Structure

Silicon epitaxial planar





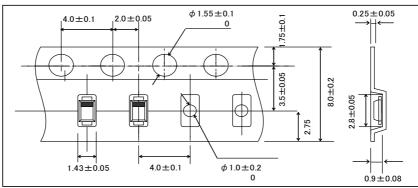


●Structure



# ● Taping dimensions (Unit: mm)

ROHM : TUMD2



 $0.6\pm_{0.1}^{0.2}$ 

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

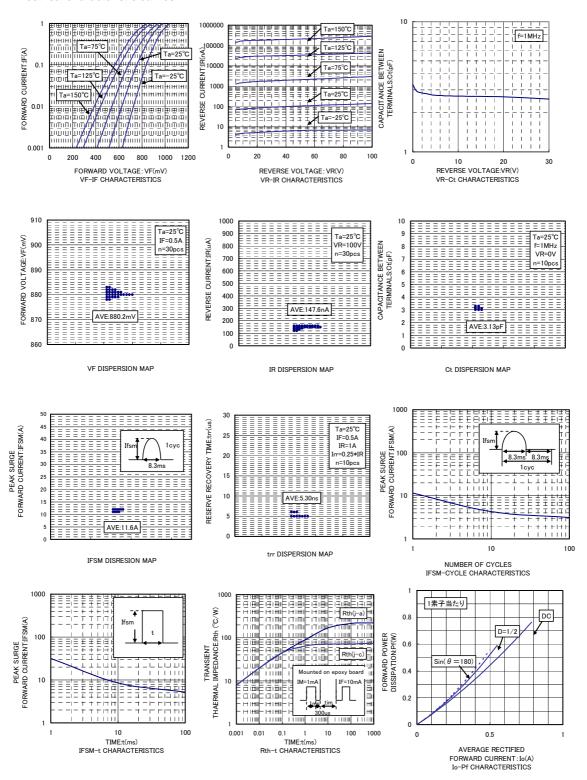
| Parameter                              | Symbol           | Limits      | Unit |
|--|------------------|-------------|------|
| Reverse voltage (repetitive peak)      | $V_{RM}$         | 100         | V    |
| Reverse voltage (DC)                   | $V_R$            | 100         | V    |
| Average rectified forward current      | lo               | 0.5         | Α    |
| Forward current surge peak (60Hz·1cyc) | I <sub>FSM</sub> | 5           | Α    |
| Junction temperature                   | Tj               | 150         | °C   |
| Storage temperature                    | Tstg             | -55 to +150 | °C   |

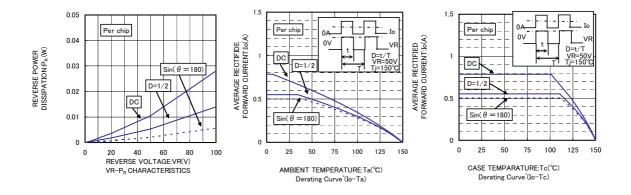
# ●Electrical characteristic (Ta=25°C)

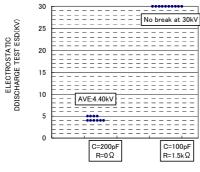
| Parameter             | Symbol         | Min. | Тур. | Max. | Unit | Conditions                                 |
|-----------------------|----------------|------|------|------|------|--|
| Forward voltage       | $V_{F}$        | -    | -    | 0.98 | V    | I <sub>F</sub> =0.5A                       |
| Reverse current       | I <sub>R</sub> | -    | -    | 10   | μΑ   | I <sub>F</sub> =100V                       |
| Reverse recovery time | trr            | -    | -    | 25   | nA   | IF=0.5A, I <sub>R</sub> =1.0A, Irr=0.25*IR |



#### •Electrical characteristic curves







ESD DISPERSION MAP

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