

Schottky barrier Diode

RSX071VA-30

●Applications

General rectification.

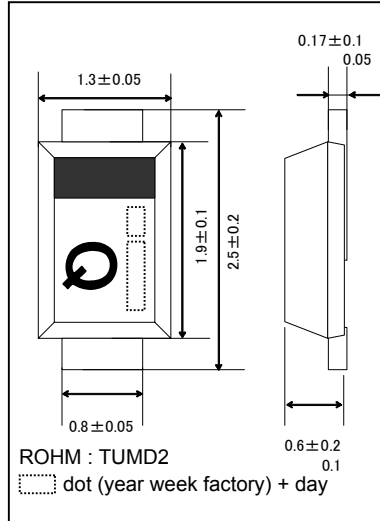
●Features

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

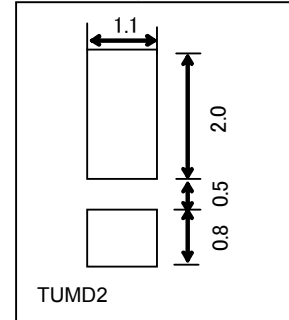
●Construction

Silicon epitaxial planar

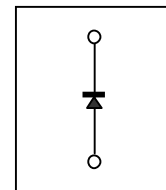
●Dimensions (Unit : mm)



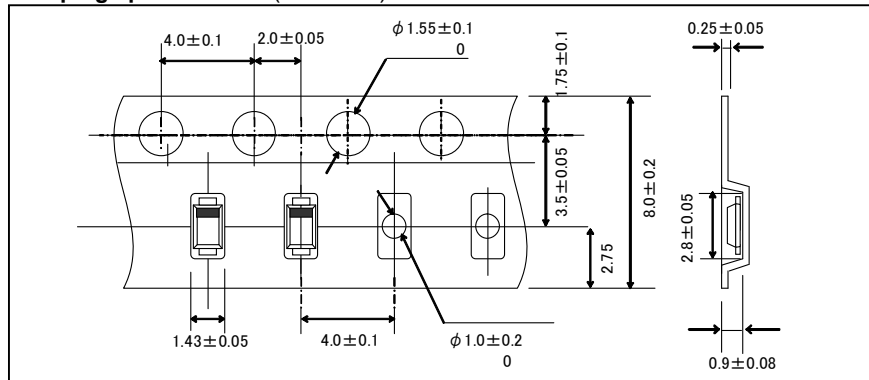
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

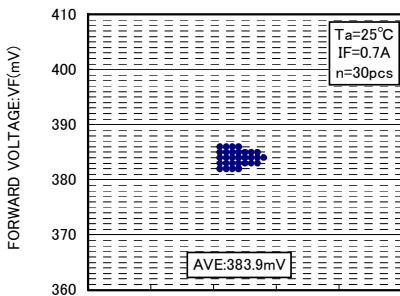
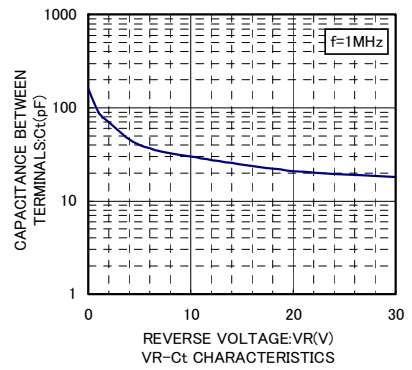
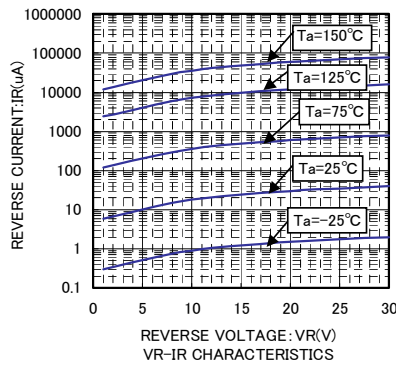
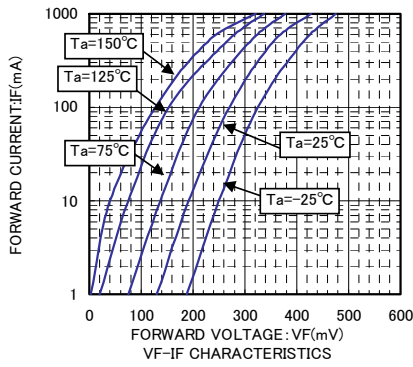


●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

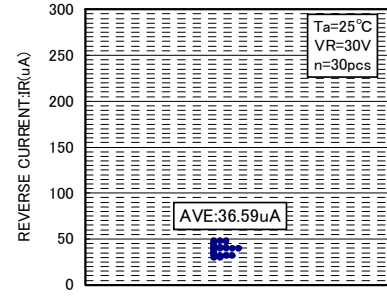
| Parameter | Symbol | Limits | Unit |
|---|-----------|-------------|------------------|
| Reverse voltage (repetitive peak) | V_{RM} | 30 | V |
| Reverse voltage (DC) | V_R | 30 | V |
| Average rectified forward current | I_o | 700 | mA |
| Forward current surge peak (60Hz· 1cyc) | I_{FSM} | 5 | A |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -40 to +150 | $^\circ\text{C}$ |

●Electrical characteristics ($T_a=25^\circ\text{C}$)

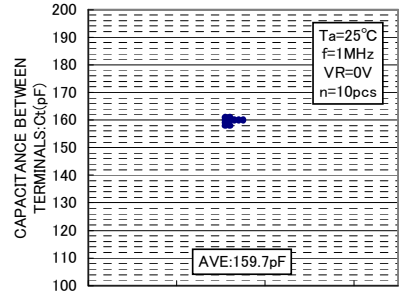
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|---------------|--------------------|
| Forward voltage | V_F | - | 0.39 | 0.42 | V | $I_F=700\text{mA}$ |
| Reverse current | I_R | - | 40 | 200 | μA | $V_R=30\text{V}$ |



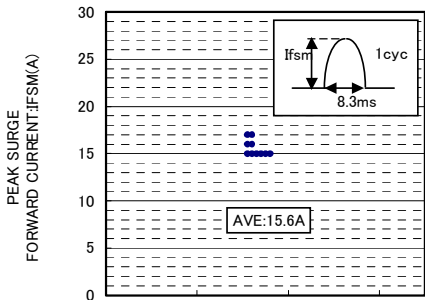
VF DISPERSION MAP



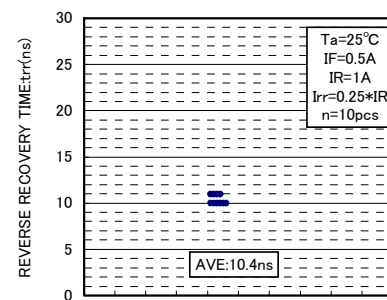
IR DISPERSION MAP



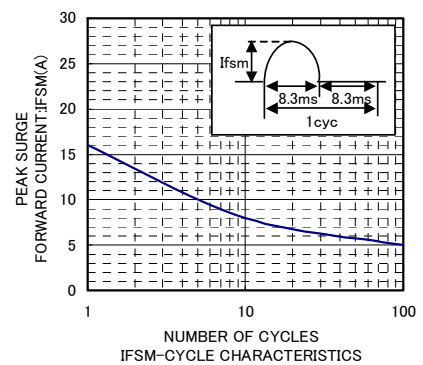
Ct DISPERSION MAP



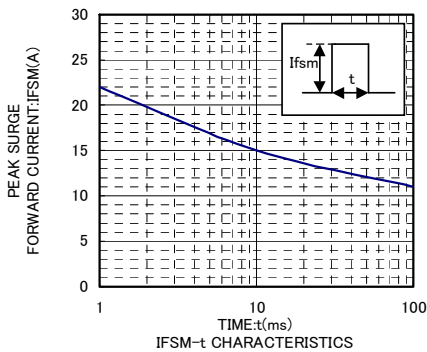
IFSM DISERSION MAP



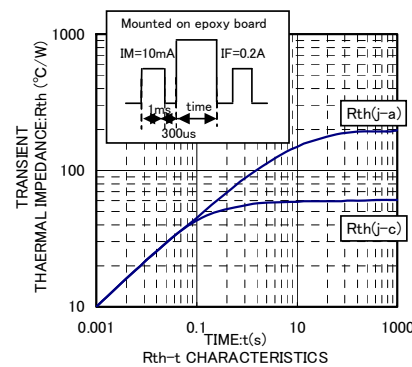
trr DISPERSION MAP



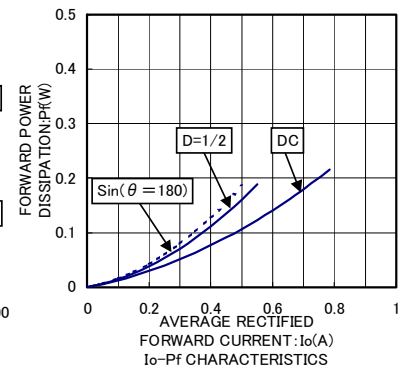
IFSM-CYCLE CHARACTERISTICS



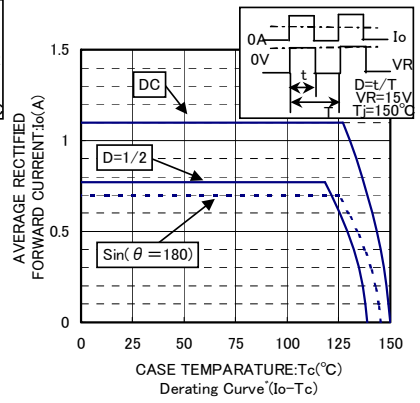
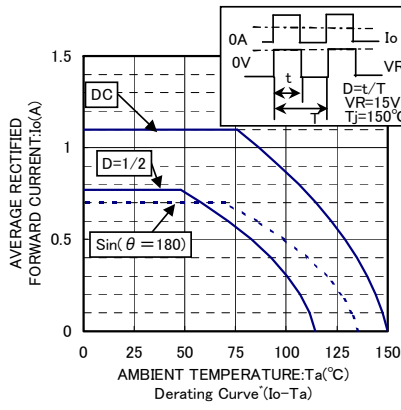
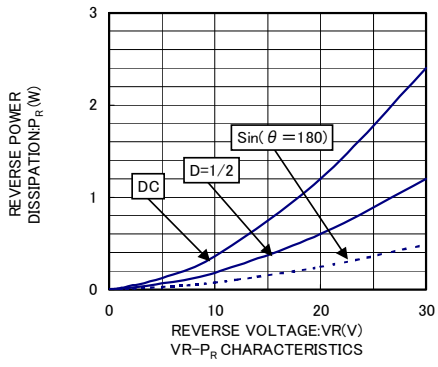
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS



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