

Schottky barrier diode

RB851Y

●Applications

High frequency detection

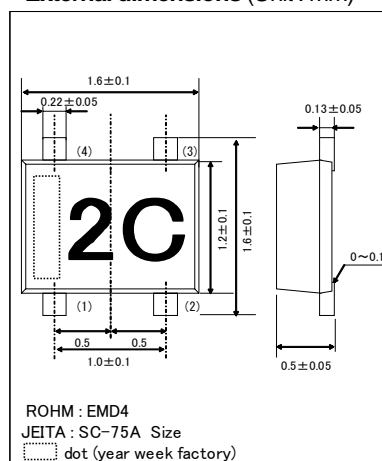
●Features

- 1) Ultra small mold type. (EMD4)
- 2) Low Ct and high detection efficiency.

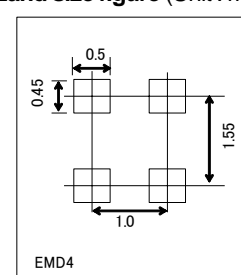
●Construction

Silicon epitaxial planar

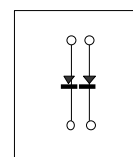
●External dimensions (Unit : mm)



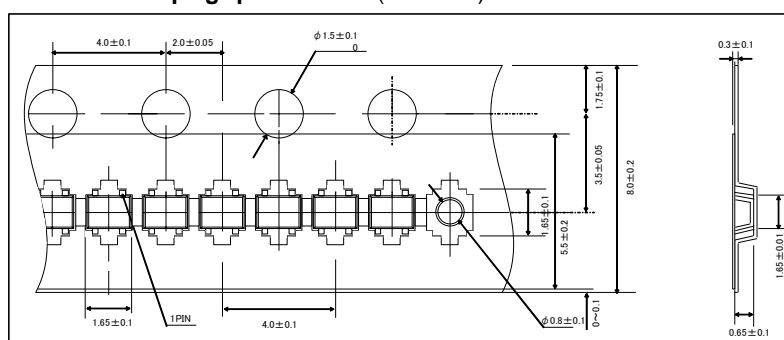
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|-----------------------------------|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_R | 3 | V |
| Reverse voltage (DC) | I_F | 30 | mA |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -40 to +125 | °C |

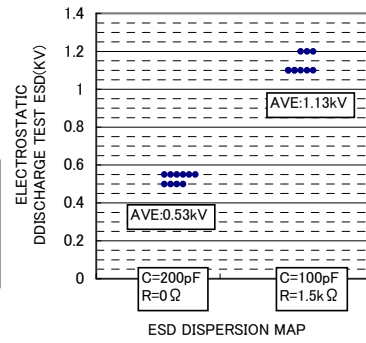
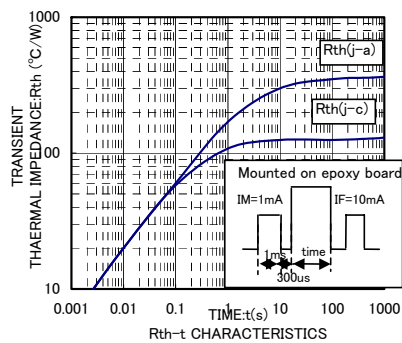
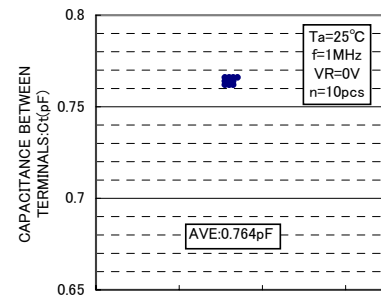
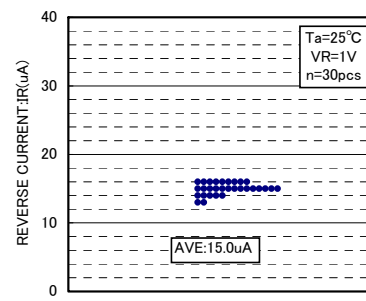
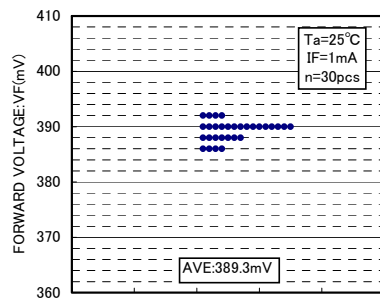
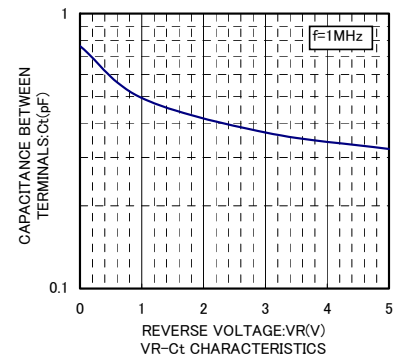
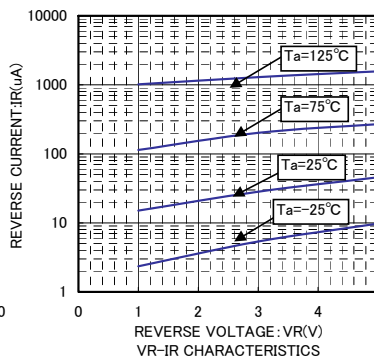
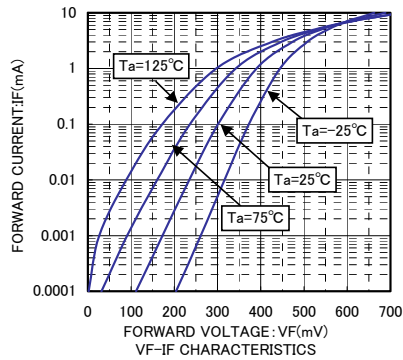
(*1) Rating of per diode

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|------------------------------|--------|------|------|------|---------------|-----------------------------------|
| Forward voltage | V_F | - | - | 0.46 | V | $I_F=1\text{mA}$ |
| Reverse current | I_R | - | - | 0.7 | μA | $V_R=1\text{V}$ |
| Capacitance between terminal | C_t | - | 0.8 | - | pF | $V_R=0\text{V}$, $f=1\text{MHz}$ |

Diodes

●Electrical characteristic curves (Ta=25°C)



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