

Schottky Barrier Diode

RB471E

●Applications

Low current rectification

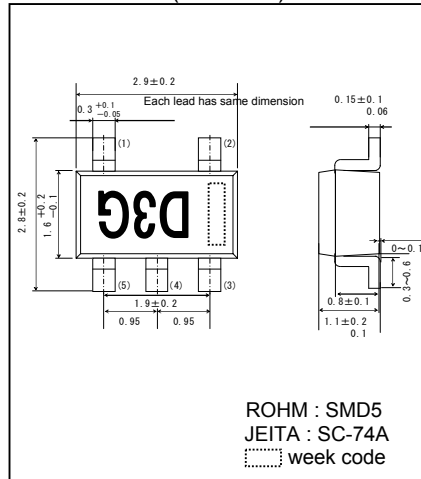
●Features

- 1) Small mold type. (SMD5)
- 2) High reliability.

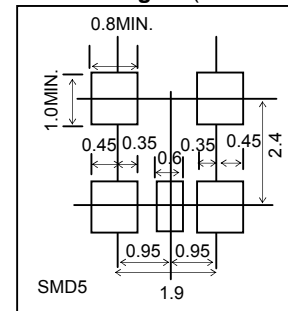
●Construction

Silicon epitaxial planar

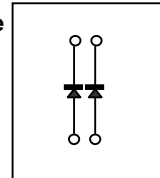
●Dimensions (Unit : mm)



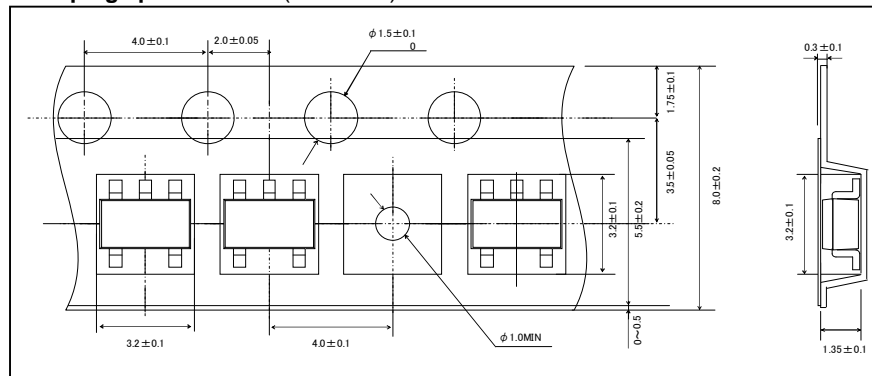
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



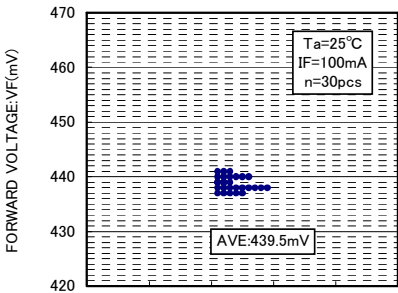
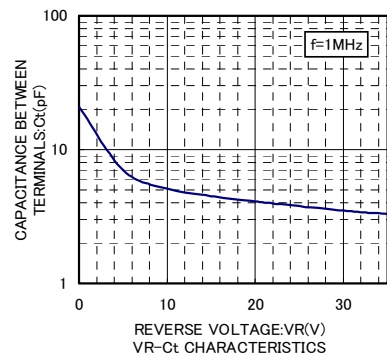
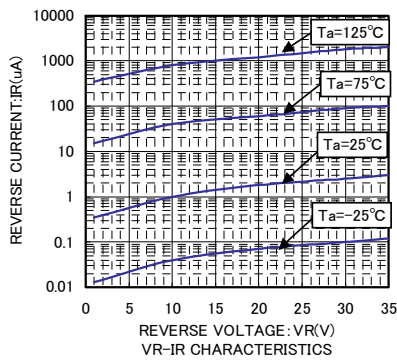
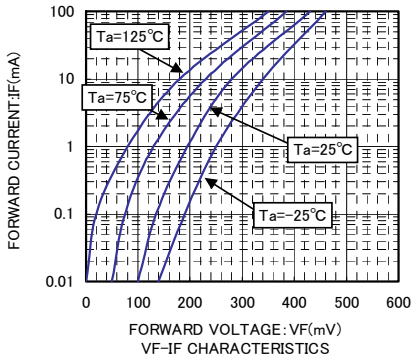
●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|---|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 40 | V |
| Reverse voltage (DC) | V_R | 40 | V |
| Average rectified forward current (*1) | I_O | 0.1 | A |
| Forward current surge peak (60Hz · 1cyc) (*1) | I_{FSM} | 1 | A |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -40 to +125 | °C |

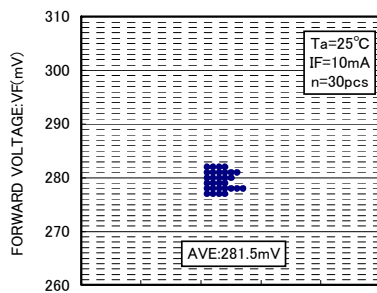
(*1) Rating of per diode

●Electrical characteristics (Ta=25°C)

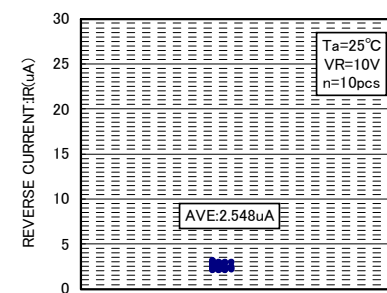
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|----------|------|------|------|------|-------------------|
| Forward voltage | V_{F1} | - | - | 0.55 | V | $I_F=100mA$ |
| | V_{F2} | - | - | 0.34 | V | $I_F=10mA$ |
| Reverse current | I_R | - | - | 30 | μA | $V_R=10V$ |
| Capacitance between terminals | C_t | - | - | 6 | pF | $V_R=10V, f=1MHz$ |



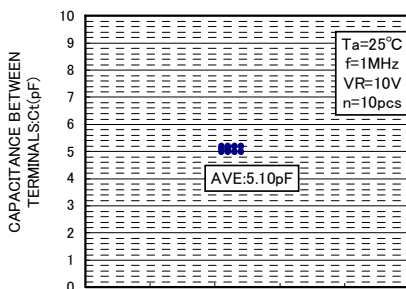
VF DISPERSION MAP



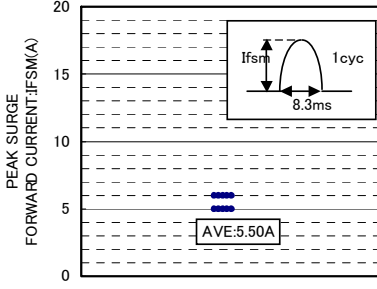
VF DISPERSION MAP



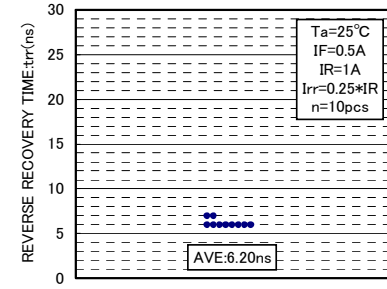
IR DISPERSION MAP



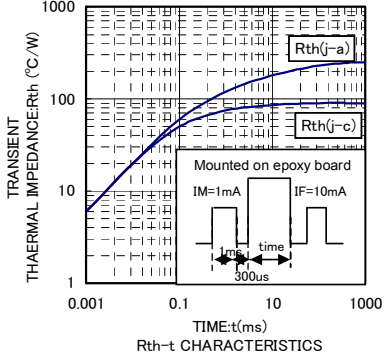
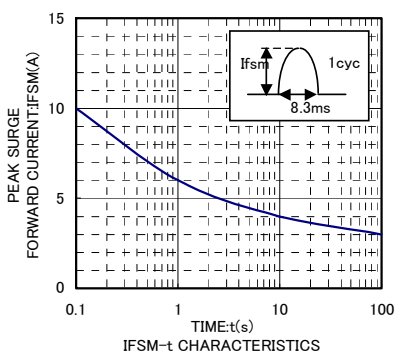
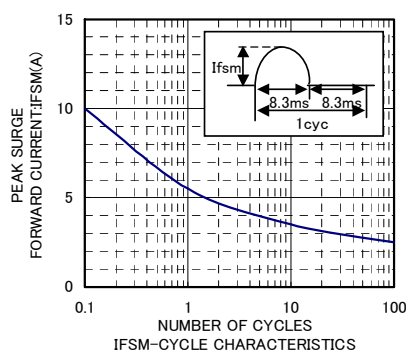
Ct DISPERSION MAP

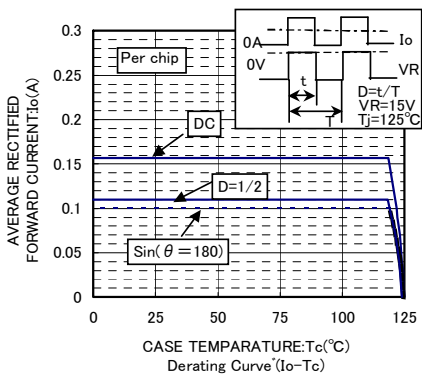
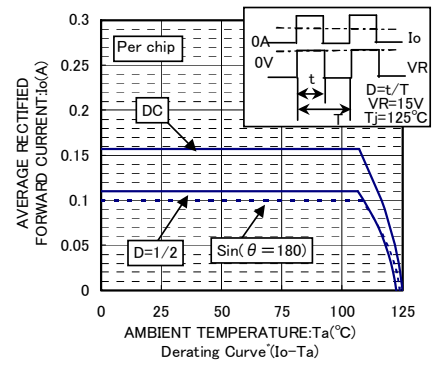
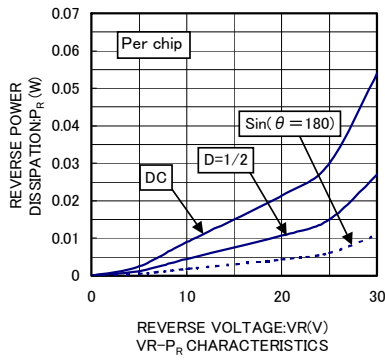
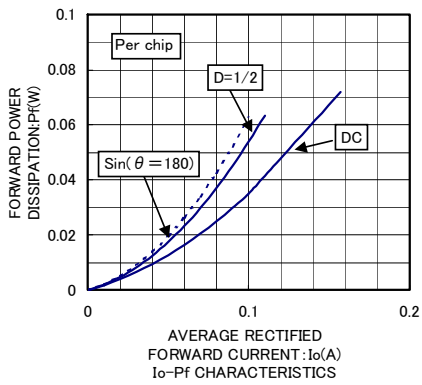


IFSM DISERSION MAP



trr DISPERSION MAP





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