

Schottky barrier diode

RB530XN

●Applications

Low current rectification

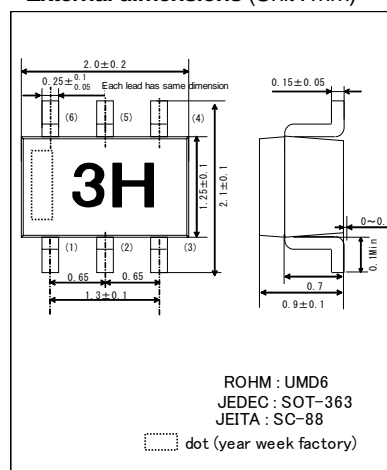
●Features

- 1) Small mold type. (UMD6)
- 2) Low I_R
- 3) High reliability.

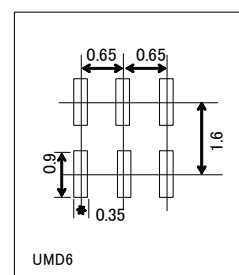
●Construction

Silicon epitaxial planar

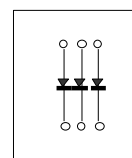
●External dimensions (Unit : mm)



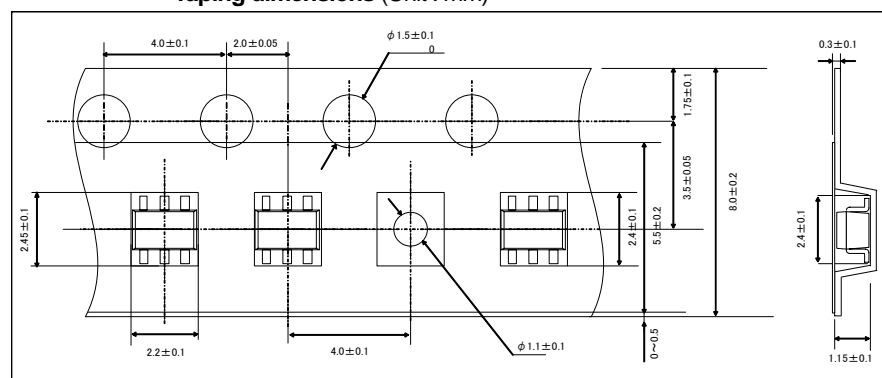
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|---|-----------|-------------|------|
| Reverse voltage | V_R | 30 | V |
| Average rectified forward current (*1) | I_o | 100 | mA |
| 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 |

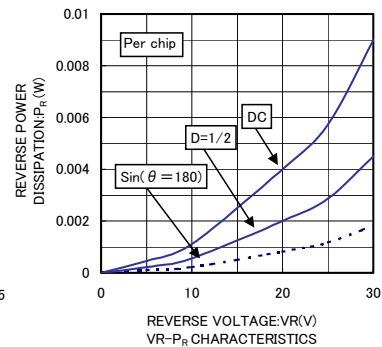
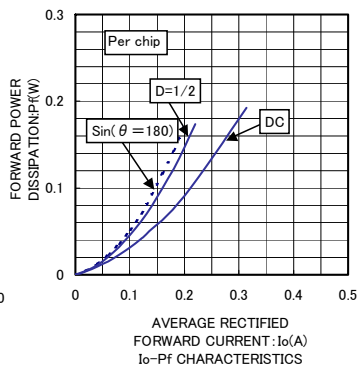
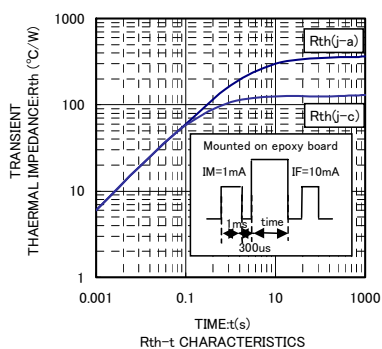
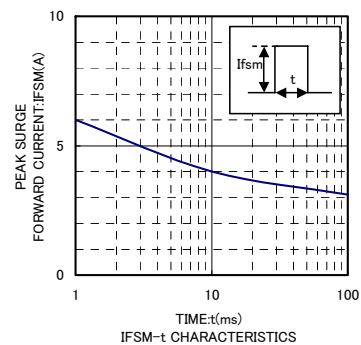
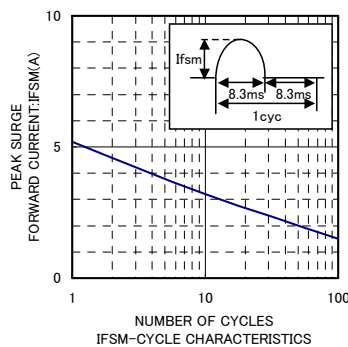
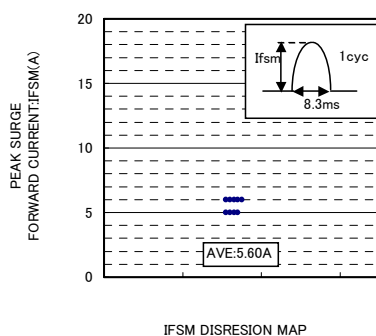
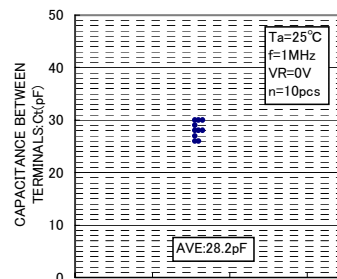
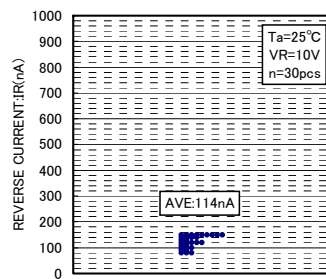
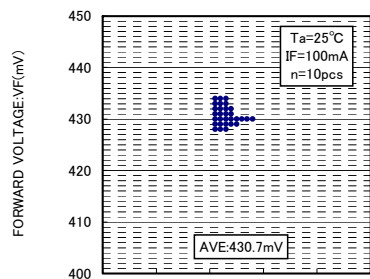
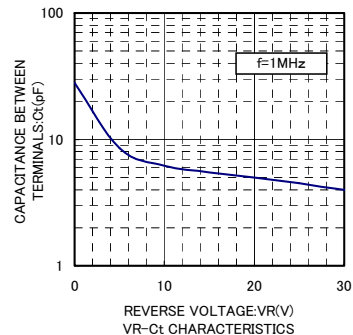
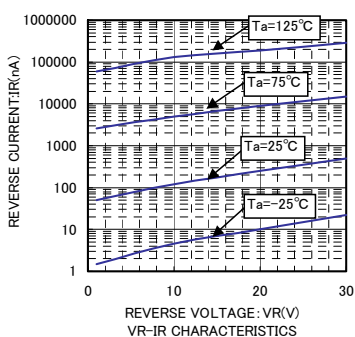
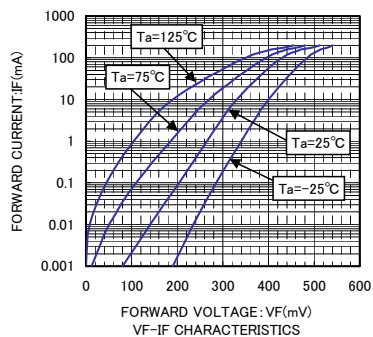
(*1) Rating of per diode

●Electrical characteristics (Ta=25°C, per chip)

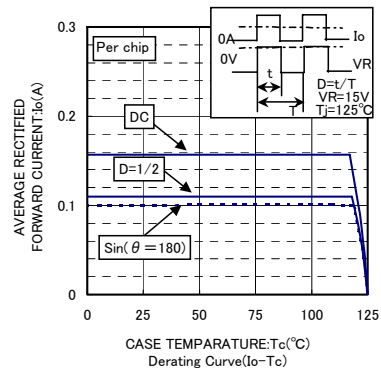
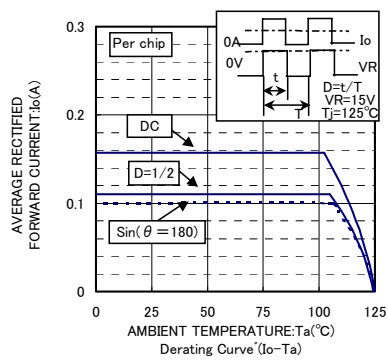
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|---------|-------------|
| Forward voltage | V_F1 | - | - | 0.40 | V | $I_F=10mA$ |
| | V_F2 | - | - | 0.53 | V | $I_F=100mA$ |
| Reverse current | I_R | - | - | 1 | μA | $V_R=10V$ |

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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