

# Schottky barrier diode

## RB530XN

### ●Applications

Low current rectification

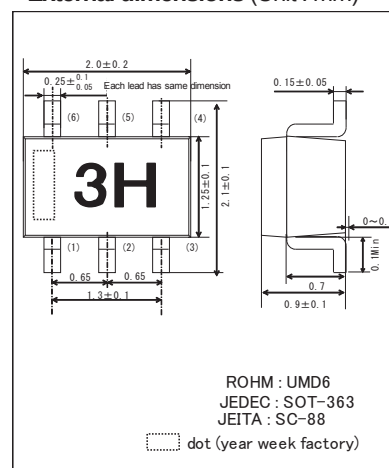
### ●Features

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

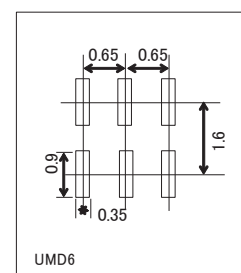
### ●Construction

Silicon epitaxial planar

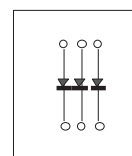
### ●External dimensions (Unit : mm)



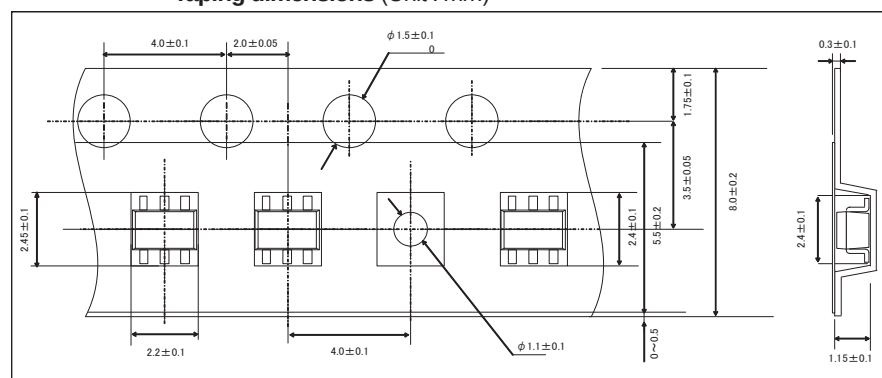
### ●Land size figure (Unit : mm)



### ●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   |

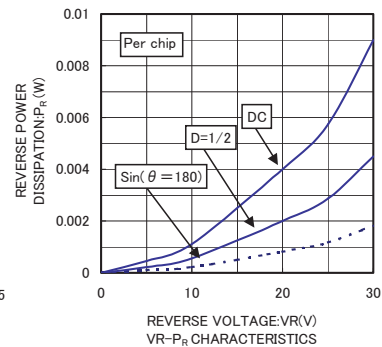
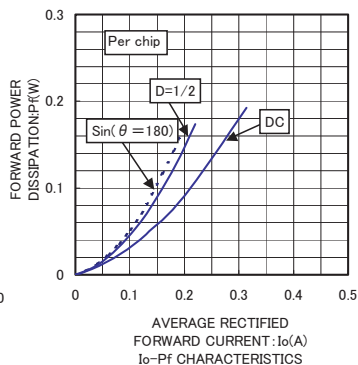
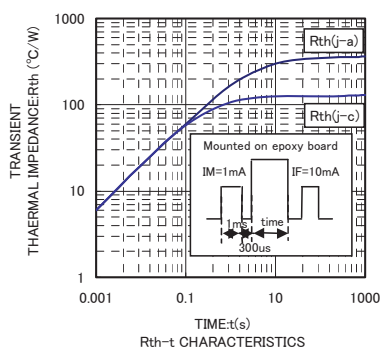
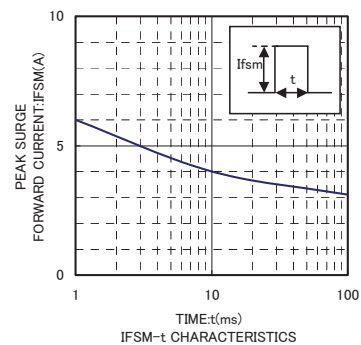
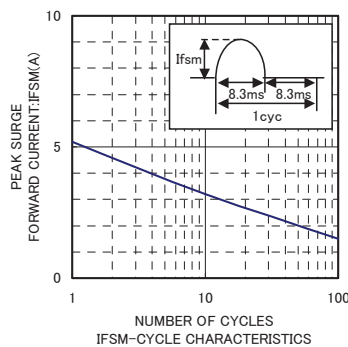
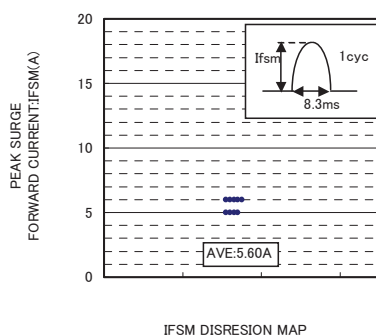
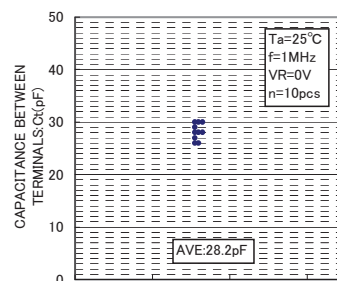
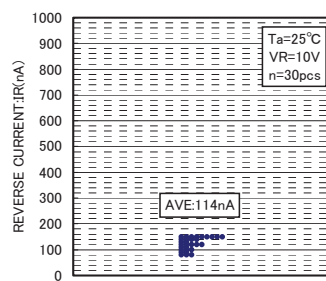
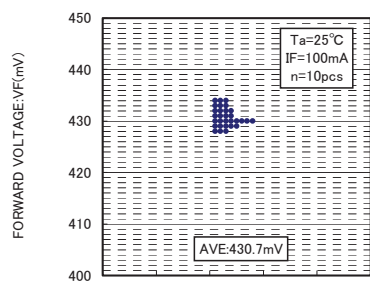
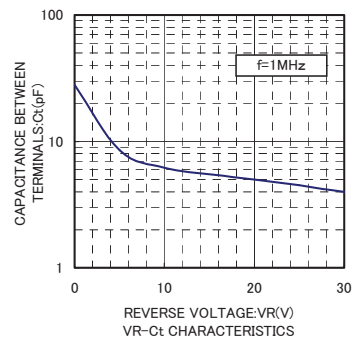
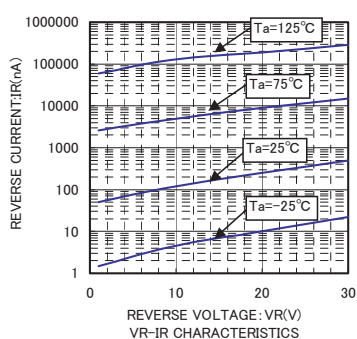
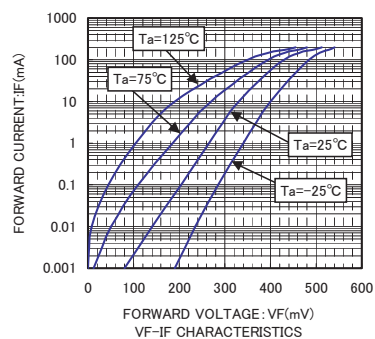
(\*1) Rating of per diode

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

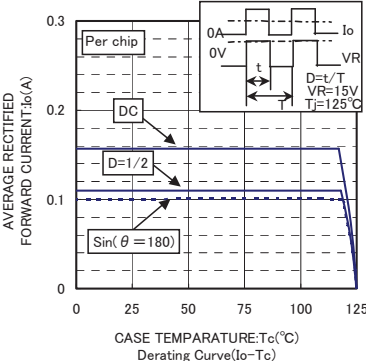
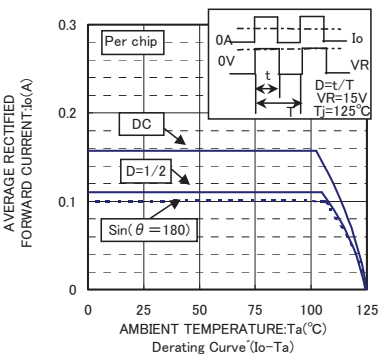
| Parameter       | Symbol | Min. | Typ. | Max. | Unit          | Conditions         |
|-----------------|--------|------|------|------|---------------|--------------------|
| Forward voltage | $V_F1$ | -    | -    | 0.40 | V             | $I_F=10\text{mA}$  |
|                 | $V_F2$ | -    | -  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

## Diodes

## ●Electrical characteristic curves (Ta=25°C)



Diodes



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