

# PIN diode

## RN242CS

●Applications

High frequency switching

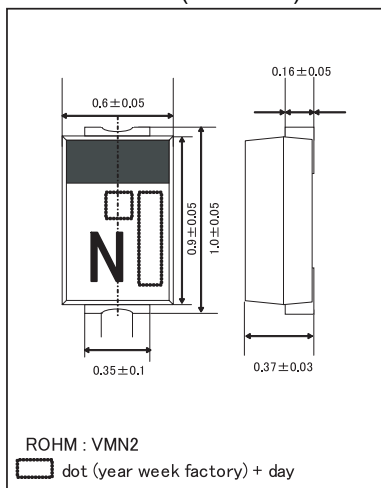
●Features

- 1) Ultra small mold type. (VMN2)
- 2) Low high frequency resistance and low capacitance

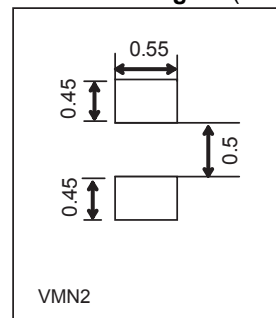
●Construction

Silicon epitaxial planer

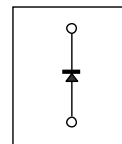
●Dimensions (Unit : mm)



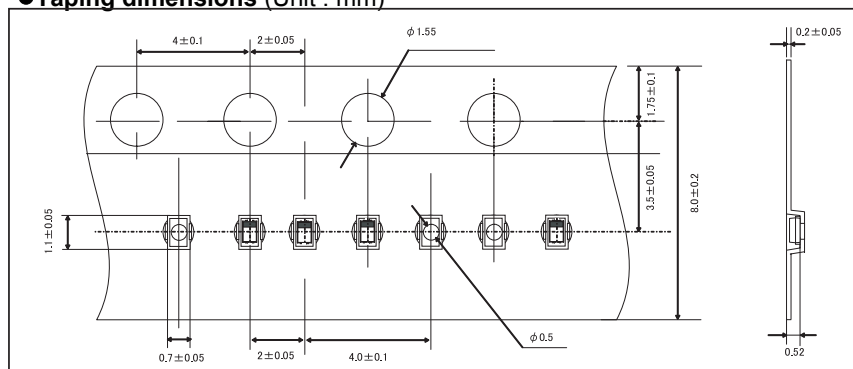
●Lead size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



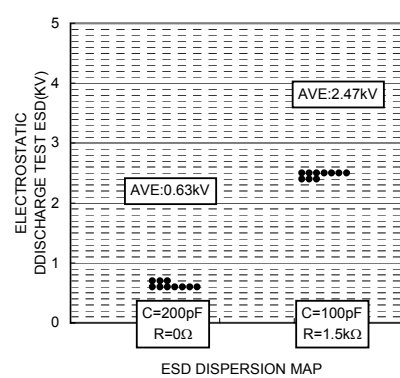
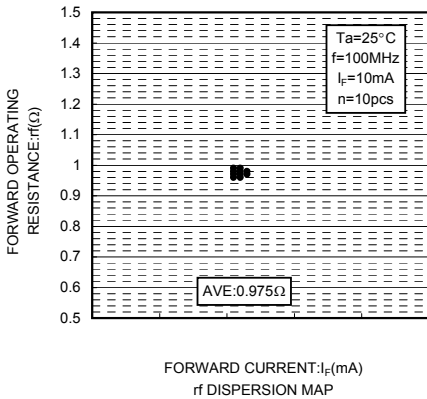
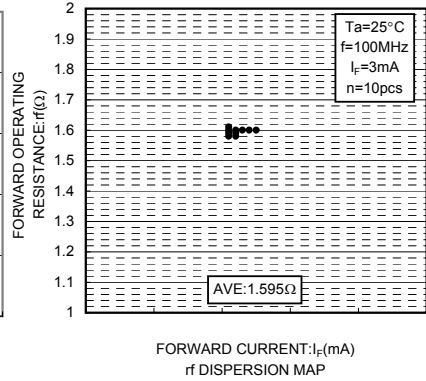
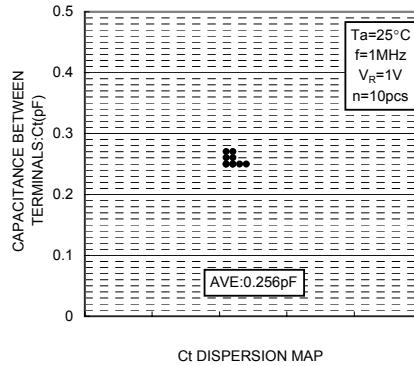
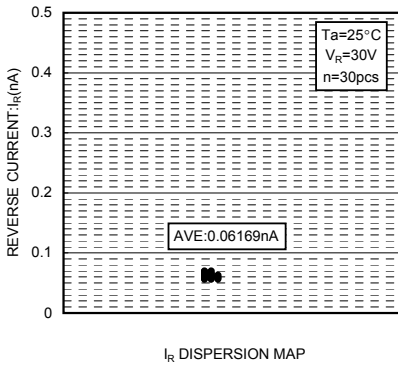
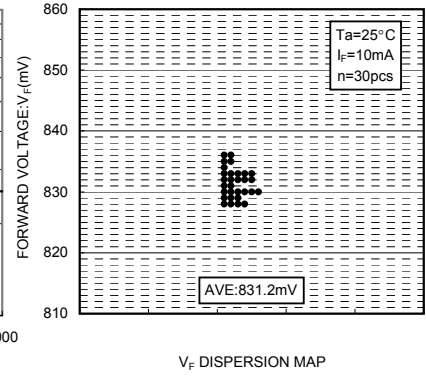
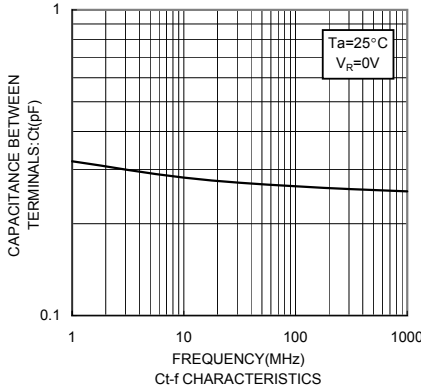
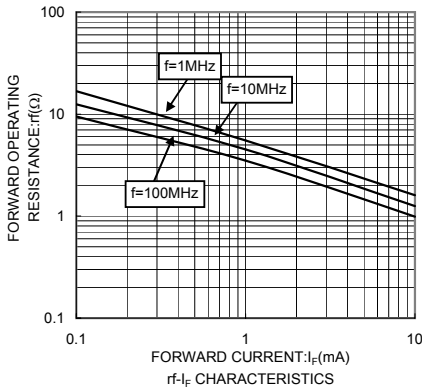
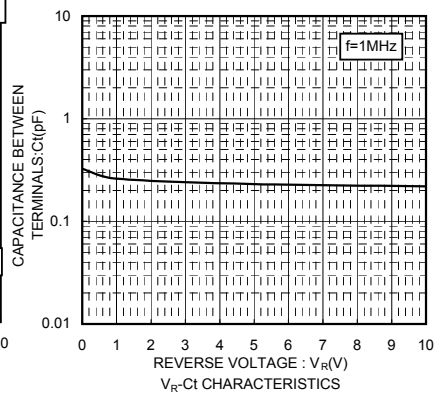
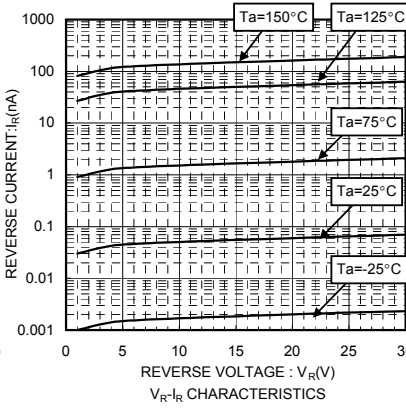
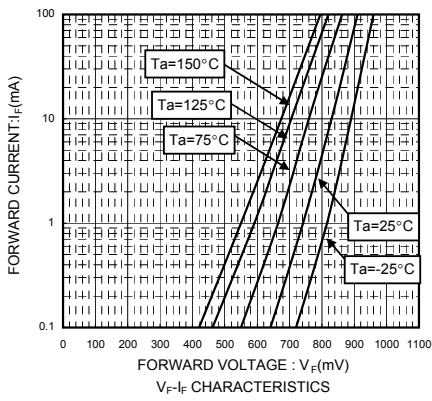
●Absolute maximum ratings (Ta=25°C)

| Parameter            | Symbol    | Limits      | Unit |
|----------------------|-----------|-------------|------|
| Reverse voltage(DC)  | $V_R$     | 30          | V    |
| Forward current      | $I_F$     | 100         | mA   |
| Junction temperature | $T_j$     | 150         | °C   |
| Storage temperature  | $T_{stg}$ | -55 to +150 | °C   |

●Electrical characteristics (Ta=25°C)

| Parameter                     | Symbol | Min. | Typ. | Max. | Unit | Conditions           |
|-------------------------------|--------|------|------|------|------|----------------------|
| Forward voltage               | $V_F$  | -    | -    | 1    | V    | $I_F=10mA$           |
| Reverse current               | $I_R$  | -    | -    | 0.1  | μA   | $V_R=30V$            |
| Capacitance between terminals | $C_t$  | -    | -    | 0.35 | pF   | $V_R=1V, f=1MHz$     |
| High frequency resistance     | $R_f$  | -    | -    | 3    | Ω    | $I_F=3mA, f=100MHz$  |
|                               |        | -    | -    | 1.5  | Ω    | $I_F=10mA, f=100MHz$ |

●Electrical characteristic curves



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