## PIN diode

## RN142G

## - Applications

High frequency switching

## -Features

1) Ultra small mold type. (VMD2)
2) High frequency resistance which is small and low capacity.

## -Construction

Silicon epitaxial planar

- External dimensions (Unit : mm)

- Taping specifications(Unit : mm)
- Land size figure (Unit : mm)

-Structure


- Absolute maximum ratings ( $\mathrm{Ta}=25^{\circ} \mathrm{C}$ )

| Parameter | Symbol | Limits | Unit |
| :--- | :---: | :---: | :---: |
| Reverse voltage | $\mathrm{V}_{\mathrm{R}}$ | 60 | V |
| Reverse current | $\mathrm{I}_{\mathrm{F}}$ | 100 | mA |
| Junction temperature | Tj | 150 | ${ }^{\circ} \mathrm{C}$ |
| Storage temperature | Tstg | -55 to +150 | ${ }^{\circ} \mathrm{C}$ |

- Electrical characteristics ( $\mathrm{Ta}=25^{\circ} \mathrm{C}$ )

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Forward voltage | $\mathrm{V}_{\mathrm{F}}$ | - | - | 1 | V | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ |
| Reverse current | $\mathrm{I}_{\mathrm{R}}$ | - | - | 0.1 | $\mu \mathrm{~A}$ | $\mathrm{~V}_{\mathrm{R}}=60 \mathrm{~V}$ |
| Capacitance between terminals | Ct | - | - | 0.45 | pF | $\mathrm{V}_{\mathrm{R}}=1 \mathrm{~V}, \mathrm{f}=1 \mathrm{MHz}$ |
| High frequency resistance | Rf | - | - | 3 | $\Omega$ | $\mathrm{I}_{\mathrm{F}}=3 \mathrm{~mA}, \mathrm{f}=100 \mathrm{MHz}$ |
|  |  | - | - | 2 | $\Omega$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}, \mathrm{f}=100 \mathrm{MHz}$ |

- Electrical characteristic curves ( $\mathrm{Ta}=25^{\circ} \mathrm{C}$ )



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