## Shottky barrier diode

## RB420D

## - Application

Low current rectification

## -Features

1) Small mold type. (SMD3)
2) Low lR
3) High reliability.

## - Structure

Silicon epitaxial planar
-Dimensions (Unit : mm)

-Lead size figure (Unit : mm)


- Structure

-Taping dimensions (Unit : mm)

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

| Parameter | Symbol | Limits | Unit |
| :--- | :---: | :---: | :---: |
| Reverse voltage (repetitive peak) | $\mathrm{V}_{\mathrm{RM}}$ | 40 | V |
| Reverse voltage (DC) | $\mathrm{V}_{\mathrm{R}}$ | 40 | V |
| Average rectified forward current (*1) | Io | 100 | mA |
| Forward current surge peak(60Hz 1 cyc$\left.\left.){ }^{*} 1\right)^{2}\right)$ | $\mathrm{I}_{\mathrm{FSM}}$ | 1 | A |
| Junction temperature | Tj | 125 | ${ }^{\circ} \mathrm{C}$ |
| Storage temperature | Tstg | -40 to +125 | ${ }^{\circ} \mathrm{C}$ |

(*1)Rating of per diode

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

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Forward voltage | $\mathrm{V}_{\mathrm{F}} 1$ | - | - | 0.45 | V | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ |
| Reverse current | $\mathrm{I}_{\mathrm{R}} 1$ | - | - | 1 | $\mu \mathrm{~A}$ | $\mathrm{~V}_{\mathrm{R}}=10 \mathrm{~V}$ |
| Capacitance between terminals | Ct 1 | - | 6 | - | pF | $\mathrm{V}_{\mathrm{R}}=10 \mathrm{~V}, \mathrm{f}=1 \mathrm{MHz}$ |

## Diodes

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




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