## Schottky barrier diode

## RB161VA-20

## -Applications

General rectification

## -Features

1) Small power mold type
(TUMD2)
2) Low $V_{F}$
3) High reliability

## -Structure

Silicon epitaxial planar


- Land size figure (Unit : mm)

-Structure

$\bullet$ Taping dimensions (Unit : mm)

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

| Parameter | Symbol | Limits | Unit |
| :--- | :---: | :---: | :---: |
| Reverse voltage (repetitive peak) | $\mathrm{V}_{\mathrm{RM}}$ | 30 | V |
| Reverse voltage (DC) | $\mathrm{V}_{\mathrm{R}}$ | 20 | V |
| Average rectified forward current | Io | 1 | A |
| Forward current surge peak $(60 \mathrm{~Hz} \cdot 1 \mathrm{cyc})$ | $\mathrm{I}_{\text {FSM }}$ | 5 | A |
| Junction temperature | Tj | 125 | ${ }^{\circ} \mathrm{C}$ |
| Storage temperature | Tstg | -40 to +125 | ${ }^{\circ} \mathrm{C}$ |

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

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Forward voltage | $\mathrm{V}_{\mathrm{F}} 1$ | - | 0.33 | 0.37 | V | $\mathrm{I}_{\mathrm{F}}=700 \mathrm{~mA}$ |
|  | $\mathrm{~V}_{\mathrm{F}} 2$ | - | 0.38 | 0.42 | $\mu \mathrm{~A}$ | $\mathrm{I}_{\mathrm{F}}=1 \mathrm{~A}$ |
| Reverse current | $\mathrm{I}_{\mathrm{R}}$ | - | 0.2 | 1 | mA | $\mathrm{~V}_{\mathrm{R}}=20 \mathrm{~V}$ |

## Diodes

## - Electrical characteristic curves




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