Super Fast Recovery Diode

## RFN10B3S

## - Serise

Standard Fast Recovery

- Applications

General rectification

## - Features

1)Power mold type(CPD)
2)Low switching loss
3)High current overload capacity

## - Construction

Silicon epitaxial planer type
-Dimensions(Unit : mm)

-Land Size Figure(Unit : mm)


- Structure

-Taping Dimensions(Unit : mm)

- Absolute Maximum Ratings $\left(\mathrm{Tc}=25^{\circ} \mathrm{C}\right)$

| Parameter | Symbol | Conditions | Limits | Unit |
| :--- | :---: | :---: | :---: | :---: |
| Repetitive peak reverse voltage | $\mathrm{V}_{\mathrm{RM}}$ | Duty $\leqq 0.5$ | 350 | V |
| Reverse voltage | $\mathrm{V}_{\mathrm{R}}$ | Direct voltage | 350 |  |
| Average rectified foward current | lo | 60 Hz half sin wave, Resistive load | $\mathrm{Tc}=34^{\circ} \mathrm{C}$ | V |
| Forward current surge peak | $\mathrm{I}_{\mathrm{FSM}}$ | 60 Hz half sin wave, Non-repetitive at $\mathrm{Tj}=25^{\circ} \mathrm{C}^{(* 1)}$ | 10 | 80 |
| Junction temperature | Tj |  | A |  |
| Storage temperature | Tstg |  | A |  |

(*1) 1-3pin common circuit

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

| Parameter | Symbol | Conditions | Min. | Typ. | Max. |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Forward voltage | $\mathrm{V}_{\mathrm{F}}$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~A}$ | - | 1.1 | 1.5 |
| Reverse current | $\mathrm{I}_{\mathrm{R}}$ | $\mathrm{V}_{\mathrm{R}}=350 \mathrm{~V}$ | V |  |  |
| Reverse recovery time | $\operatorname{trr}$ | $\mathrm{I}_{\mathrm{F}}=0.5 \mathrm{~A}, \mathrm{I}_{\mathrm{R}}=1 \mathrm{~A}, \operatorname{lrr}=0.25 \times \mathrm{I}_{\mathrm{R}}$ | - | 0.05 | 10 |
| Thermal resistance | Junction to case | $\mu \mathrm{A}$ |  |  |  |



$I_{\text {FSM }}$ DISPERSION MAP



ESD DISPERSION MAP






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