

# Super Fast Recovery Diode

**RF2001NS3D**
**●Series**

Standard Fast Recovery

**●Applications**

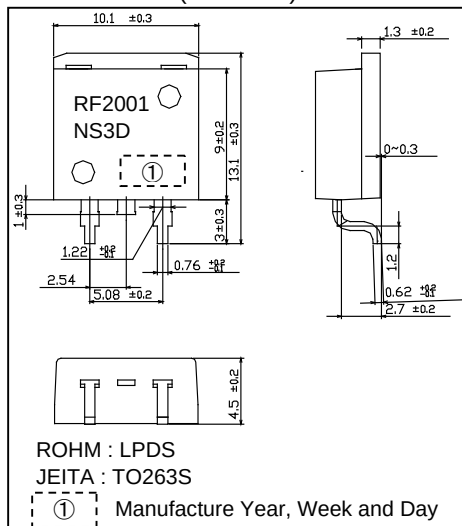
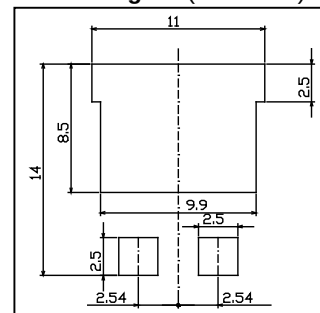
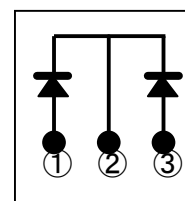
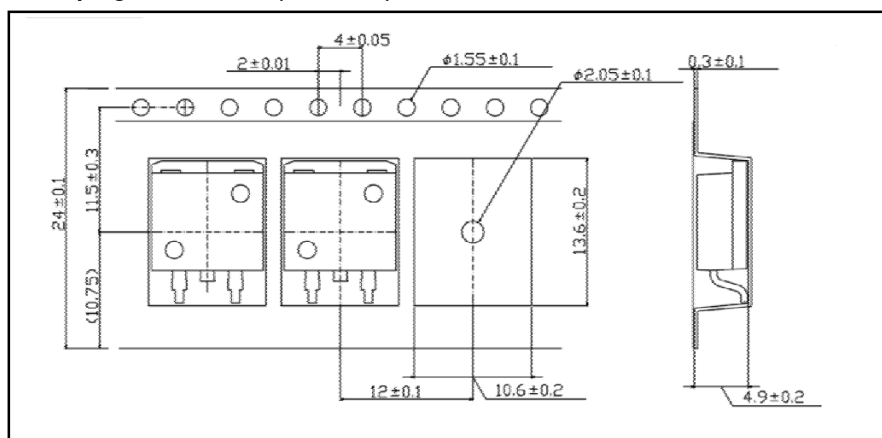
General rectification

**●Features**

- 1) Ultra low switching loss
- 2) High current overload capacity
- 3) Cathode common dual type

**●Construction**

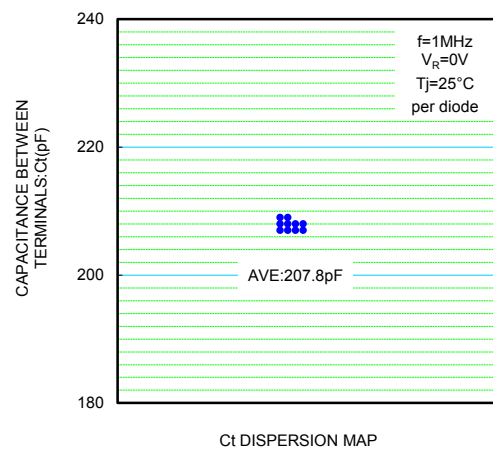
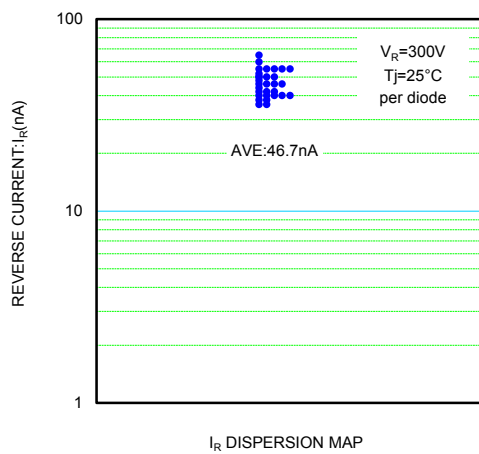
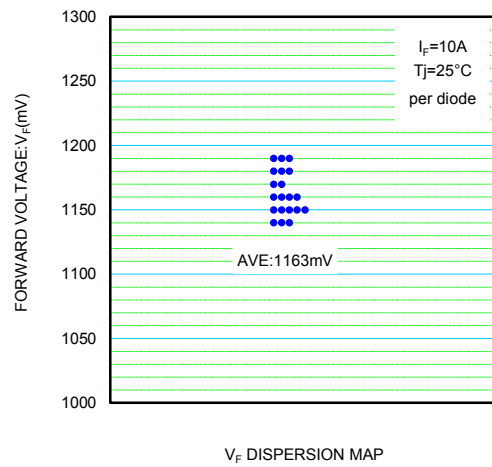
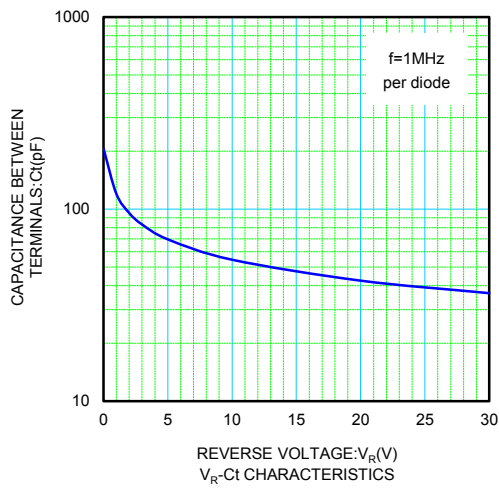
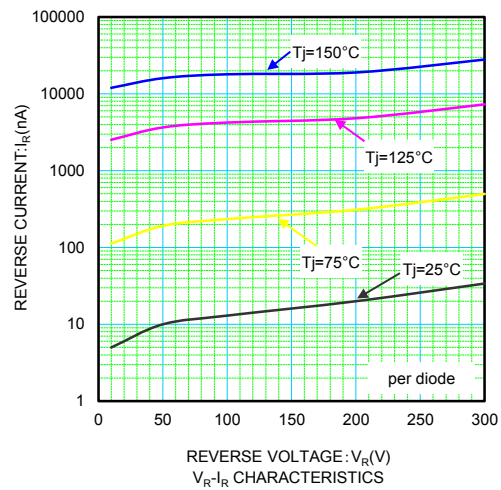
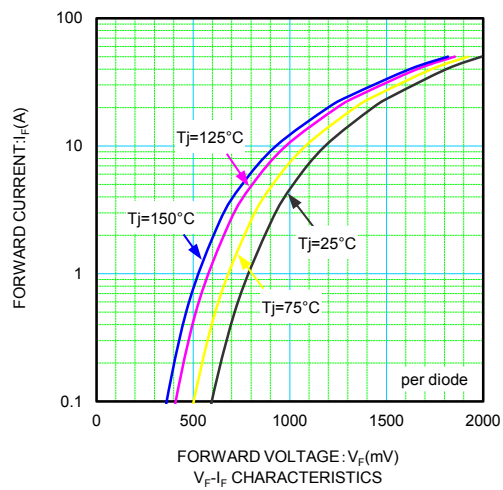
Silicon epitaxial planer

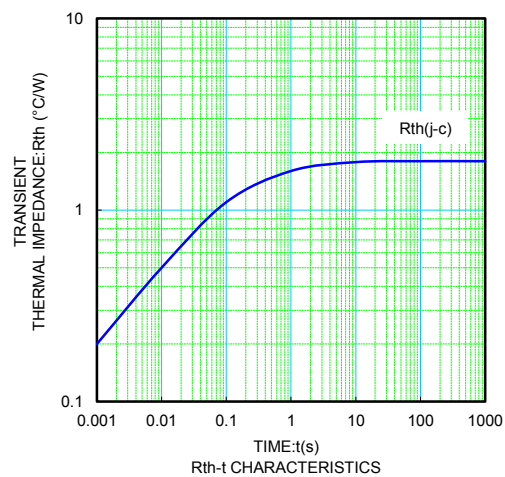
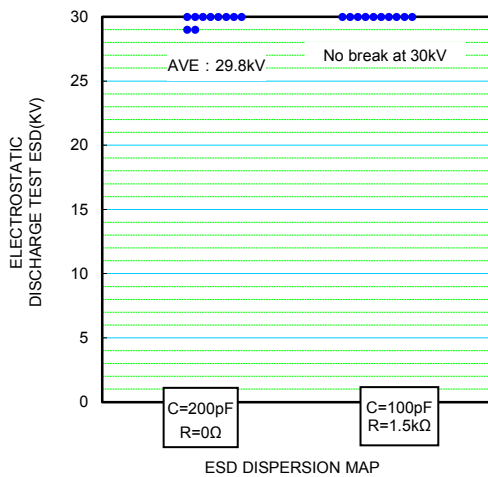
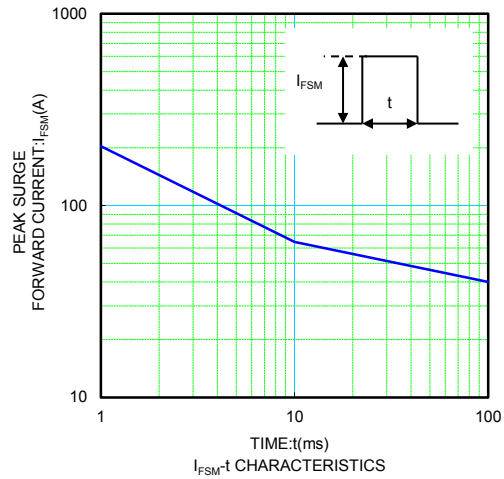
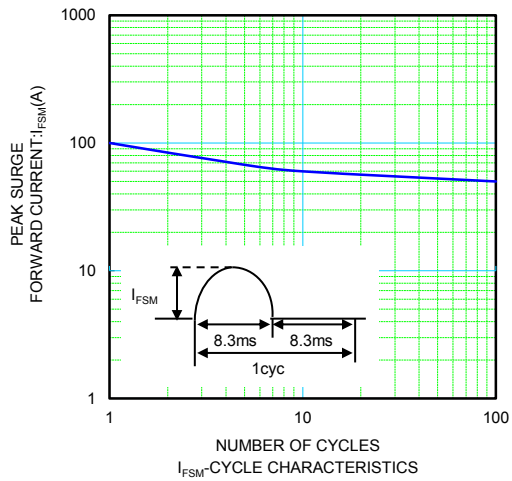
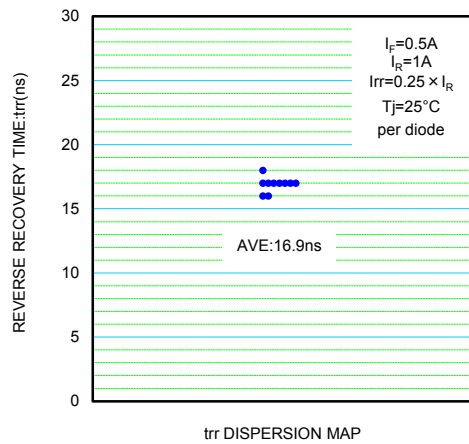
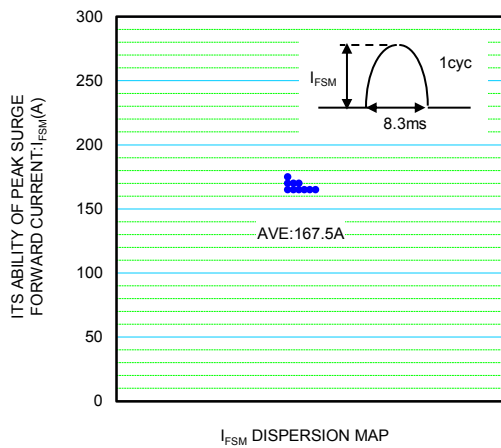
**●Dimensions (Unit : mm)**

**●Land size figure (Unit : mm)**

**●Structure**

**●Taping dimensions (Unit : mm)**

**●Absolute maximum ratings (Tc=25°C)**

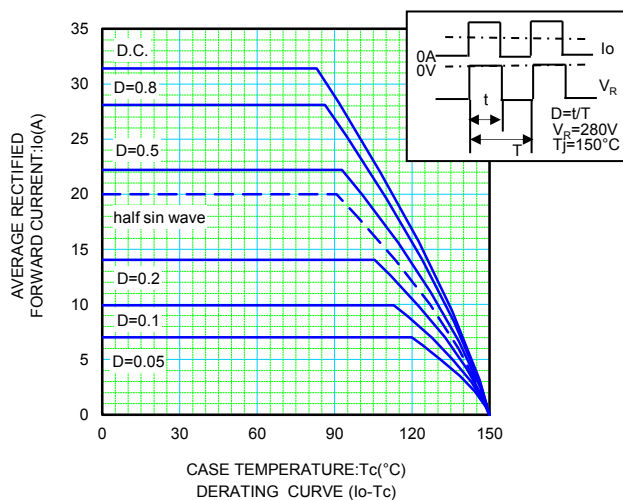
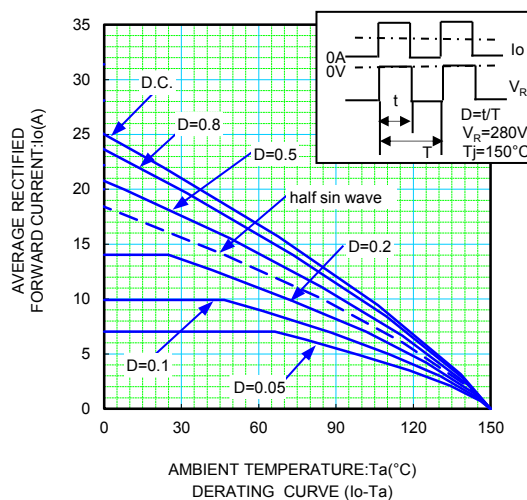
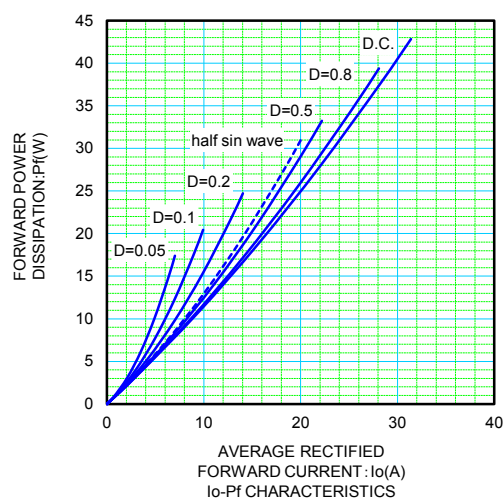
| Parameter                         | Symbol    | Conditions                                                          | Limits      | Unit |
|-----------------------------------|-----------|---------------------------------------------------------------------|-------------|------|
| Repetitive peak reverse voltage   | $V_{RM}$  | Duty≤0.5                                                            | 350         | V    |
| Reverse voltage                   | $V_R$     | Direct voltage                                                      | 300         | V    |
| Average rectified forward current | $I_o$     | 60Hz half sin wave resistive load ,<br>1/2 $I_o$ per diode          | 20          | A    |
| Forward current surge peak        | $I_{FSM}$ | 60Hz half sin wave, Non-repetitive<br>one cycle peak value, Tj=25°C | 100         | A    |
| Junction temperature              | Tj        |                                                                     | 150         | °C   |
| Storage temperature               | Tstg      |                                                                     | -55 to +150 | °C   |

**●Electrical characteristics (Tj=25°C, per diode)**

| Parameter             | Symbol   | Conditions                                 | Min. | Typ. | Max. | Unit |
|-----------------------|----------|--------------------------------------------|------|------|------|------|
| Forward voltage       | $V_F$    | $I_F=10A$                                  | —    | 1.2  | 1.3  | V    |
| Reverse current       | $I_R$    | $V_R=300V$                                 | —    | 0.03 | 10   | μA   |
| Reverse recovery time | trr      | $I_F=0.5A, I_R=1A, I_{rr}=0.25 \times I_R$ | —    | 17   | 25   | ns   |
| Thermal resistance    | Rth(j-c) | junction to case                           | —    | —    | 2    | °C/W |







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