

### ●Application

Switching power supply

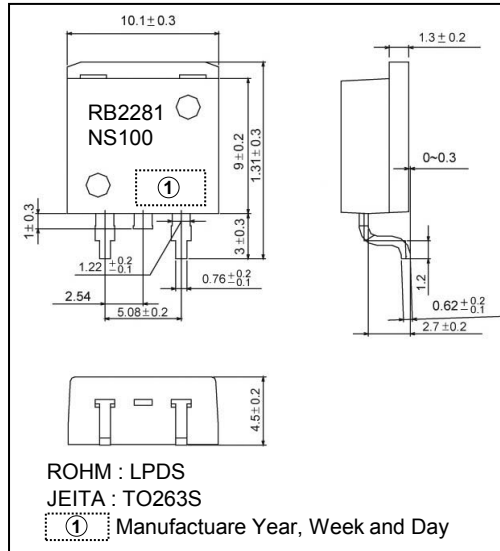
### ●Features

- 1) Cathode common dual type
- 2) Low  $I_R$
- 3) High reliability
- 4) AEC-Q101 qualified

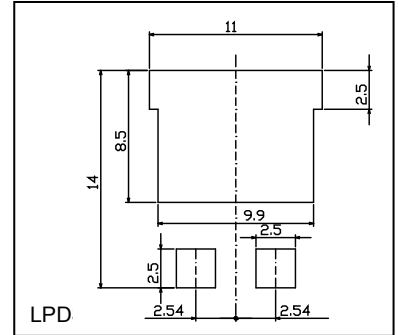
### ●Construction

Silicon epitaxial planar

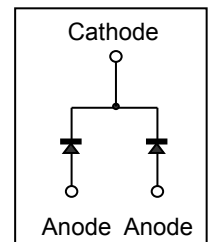
### ●Dimensions (Unit : mm)



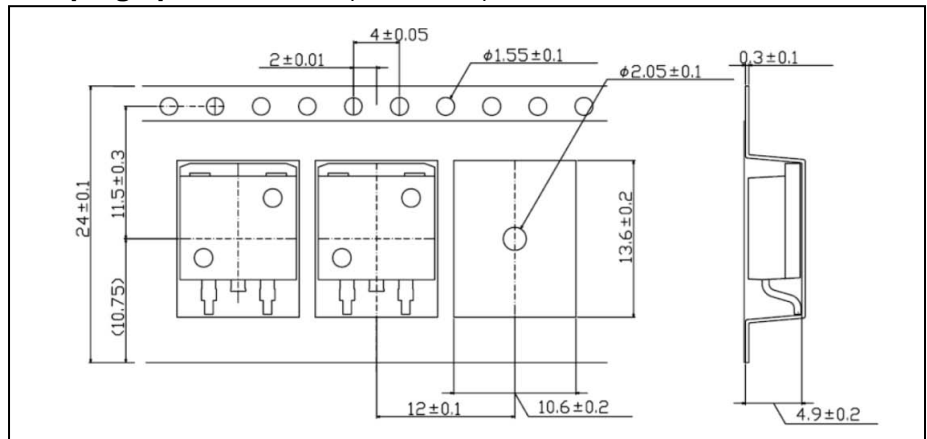
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



### ●Absolute maximum ratings ( $T_c = 25^\circ\text{C}$ )

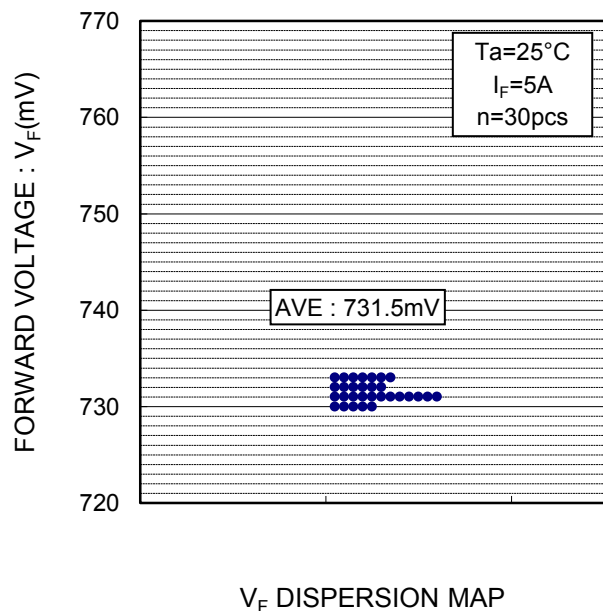
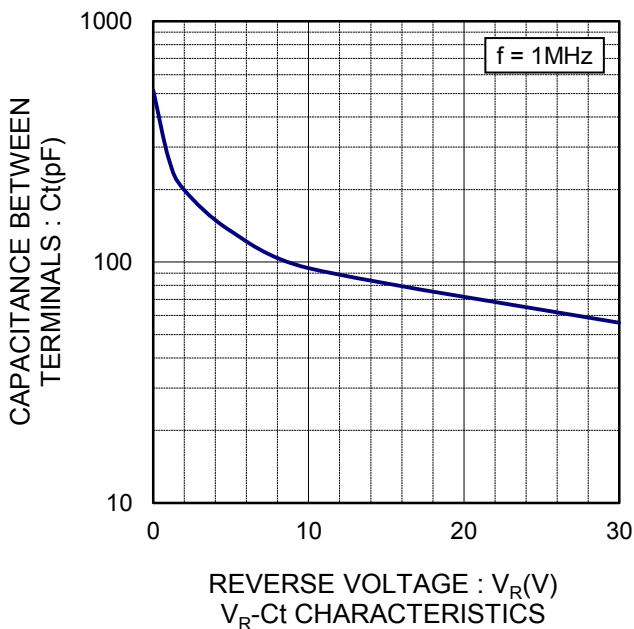
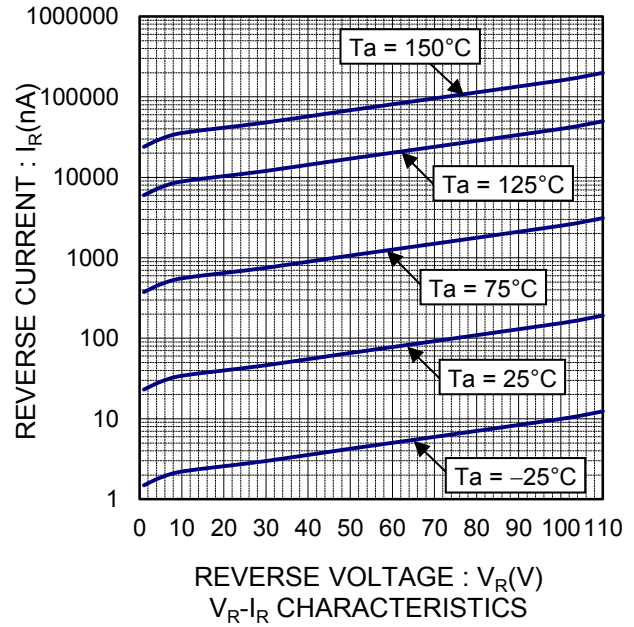
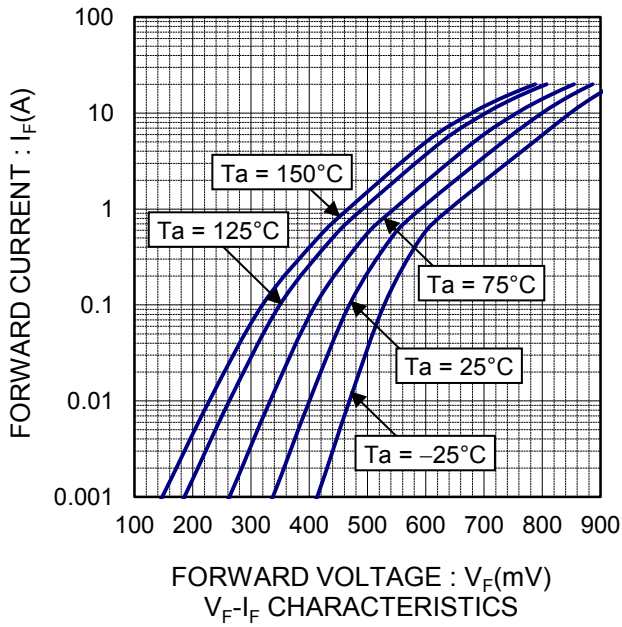
| Parameter                                   | Symbol    | Limits      | Unit             |
|---|-----------|-------------|------------------|
| Reverse voltage (repetitive)                | $V_{RM}$  | 110         | V                |
| Reverse voltage (DC)                        | $V_R$     | 100         | V                |
| Average rectified forward current (*1)      | $I_o$     | 30          | A                |
| Forward current surge peak (60Hz·1cyc) (*1) | $I_{FSM}$ | 100         | A                |
| Junction temperature                        | $T_j$     | 150         | $^\circ\text{C}$ |
| Storage temperature                         | $T_{stg}$ | -40 to +150 | $^\circ\text{C}$ |

(\*1) Rating of per diode :  $I_o/2$

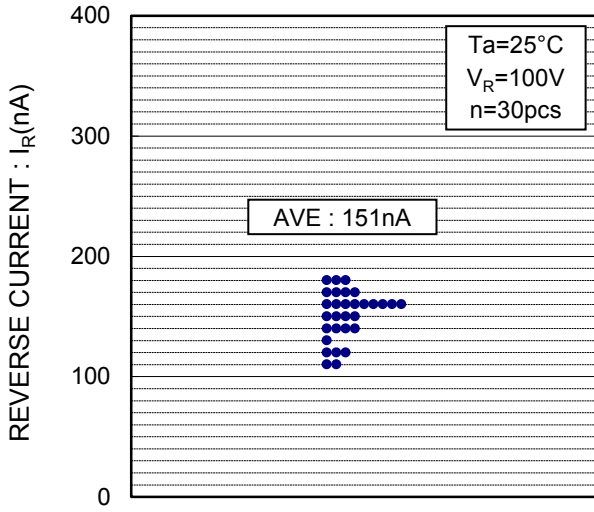
### ●Electrical characteristics ( $T_j = 25^\circ\text{C}$ )

| Parameter         | Symbol        | Min. | Typ. | Max. | Unit               | Conditions          |
|-------------------|---------------|------|------|------|--------------------|---------------------|
| Forward voltage   | $V_F$         | -    | -    | 0.87 | V                  | $I_F = 5\text{A}$   |
| Reverse current   | $I_R$         | -    | -    | 0.15 | mA                 | $V_R = 100\text{V}$ |
| Thermal impedance | $\theta_{jc}$ | -    | -    | 2.00 | $^\circ\text{C/W}$ | junction to case    |

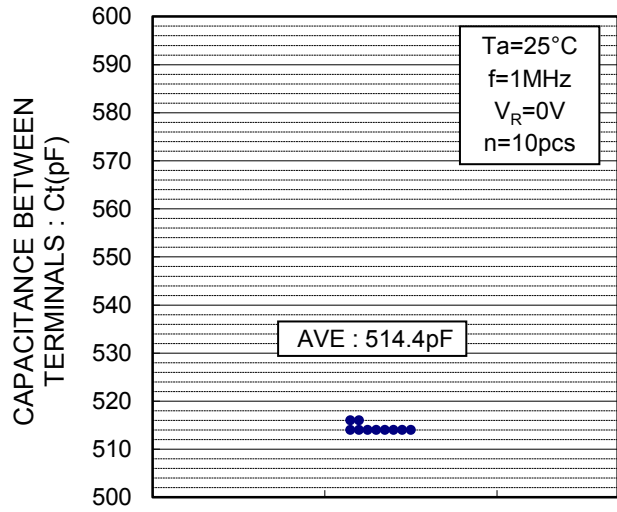
●Electrical characteristic curves



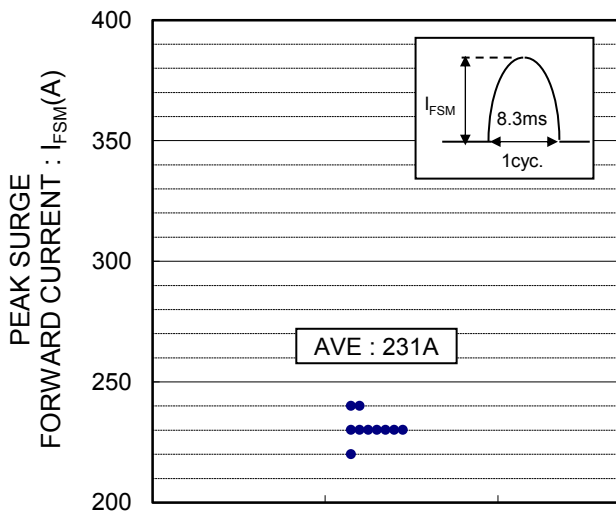
●Electrical characteristic curves



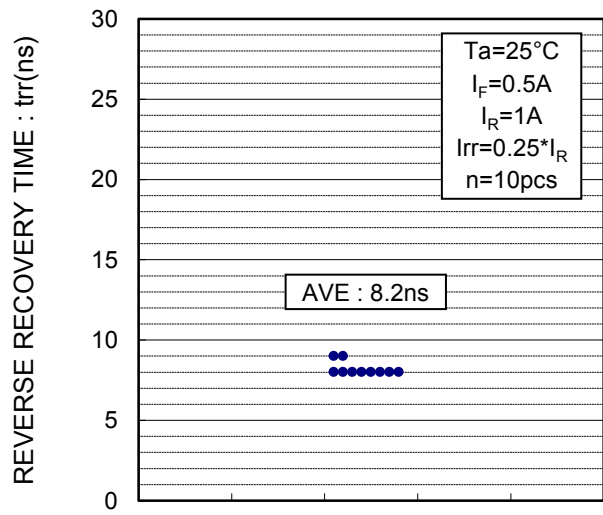
$I_R$  DISPERSION MAP



$C_t$  DISPERSION MAP

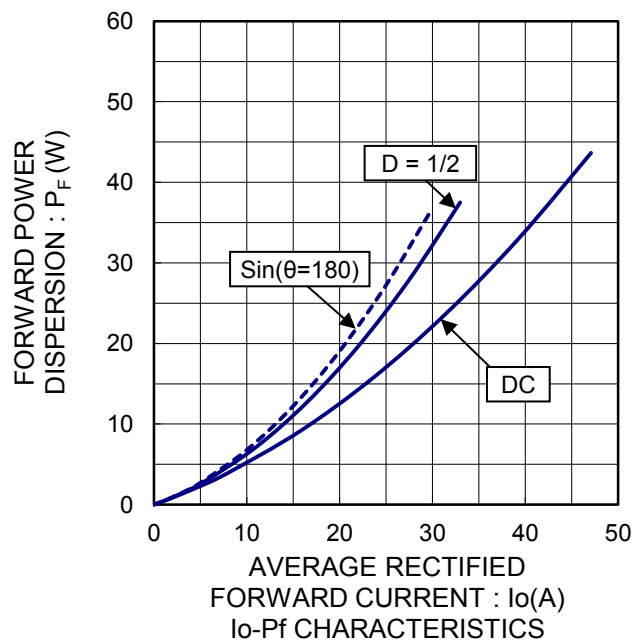
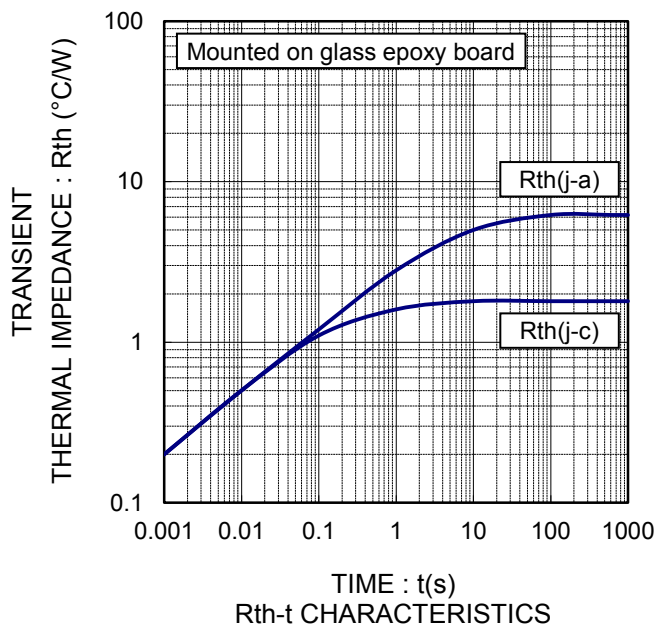
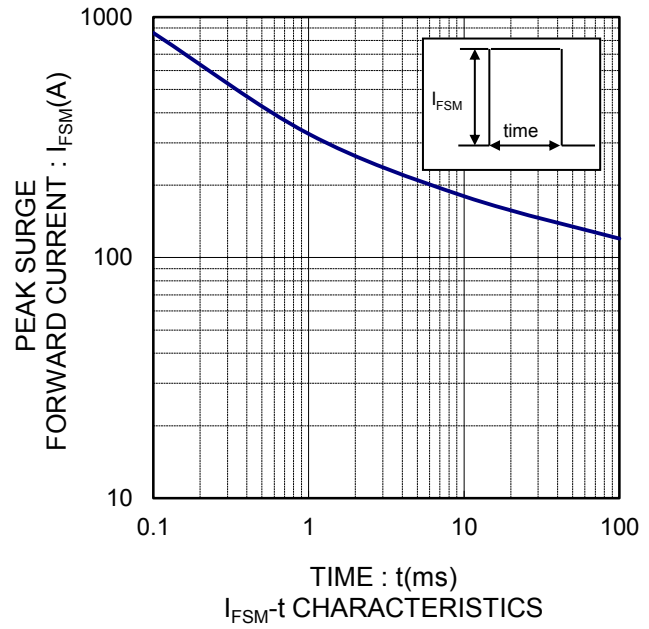
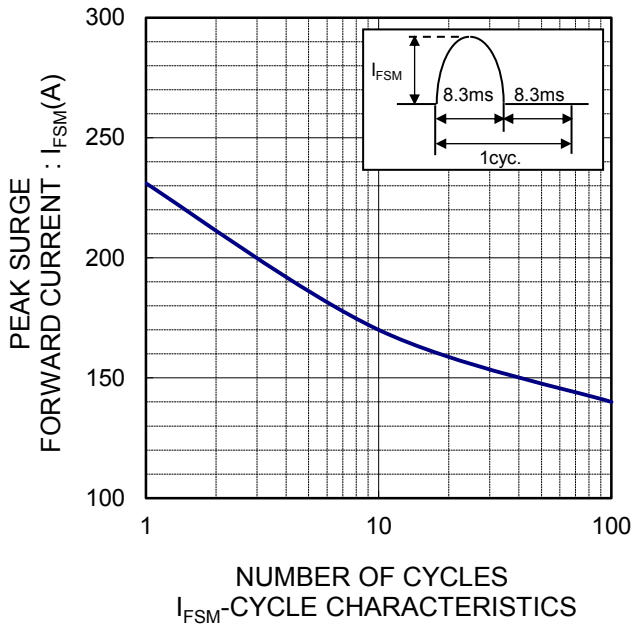


$I_{FSM}$  DISPERSION MAP

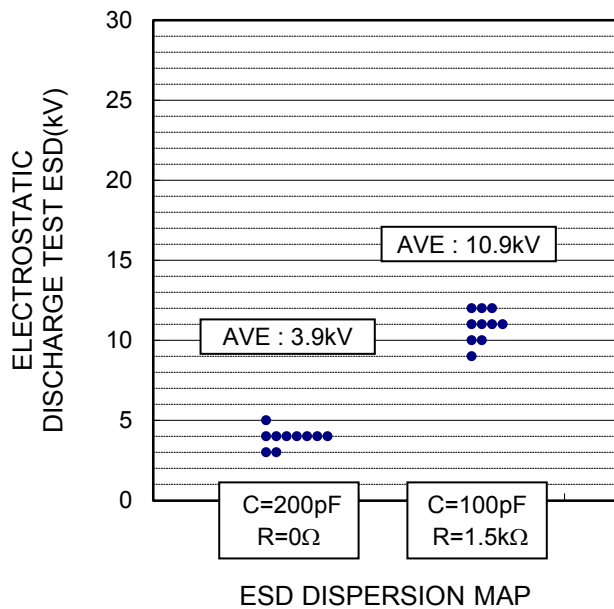
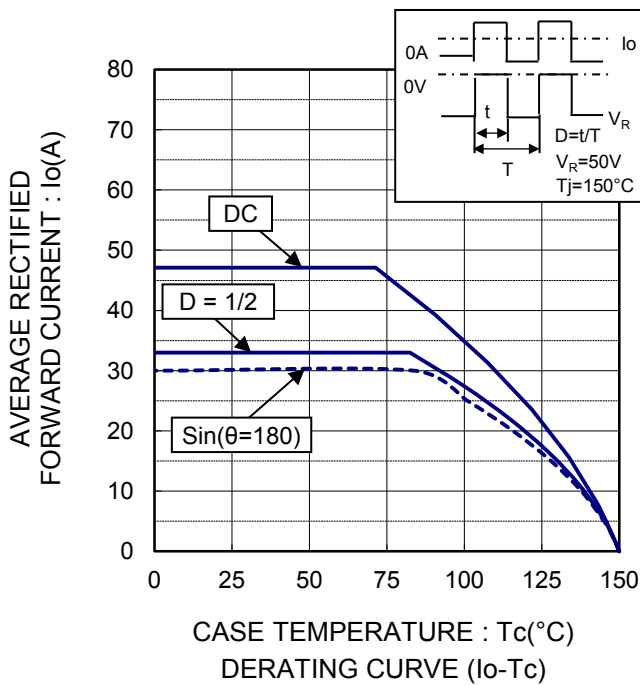
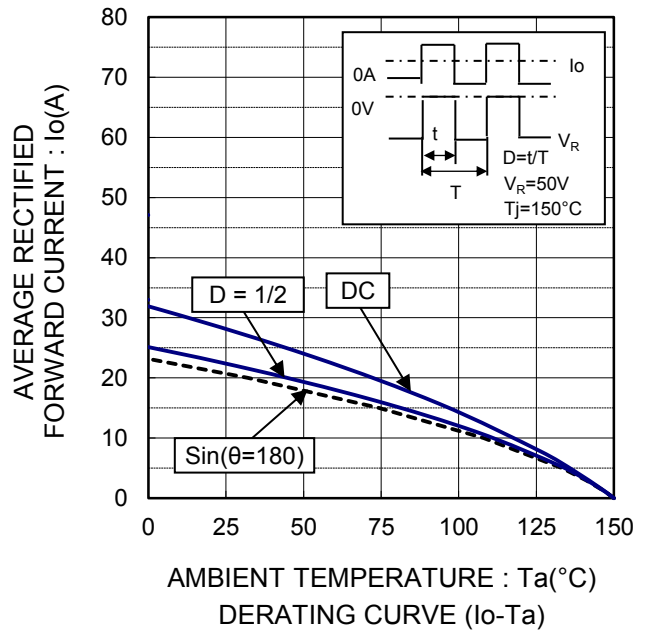
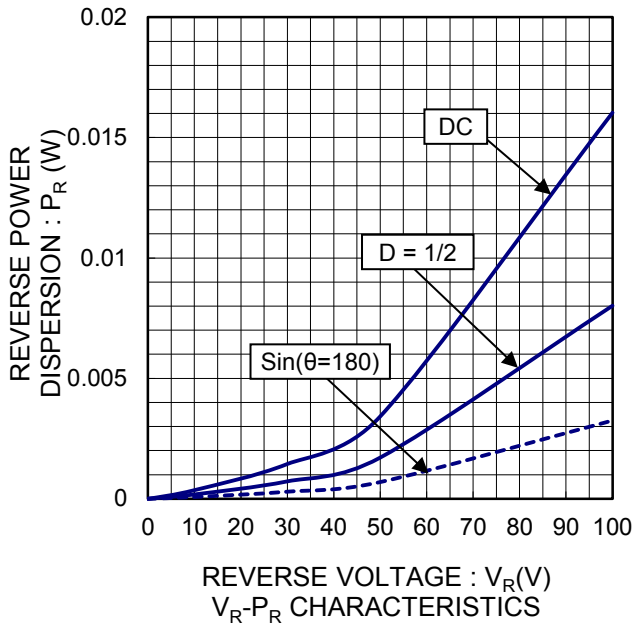


$t_{rr}$  DISPERSION MAP

●Electrical characteristic curves



●Electrical characteristic curves



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