

Schottky Barrier Diode

RB228NS100

●Applications

Switching power supply

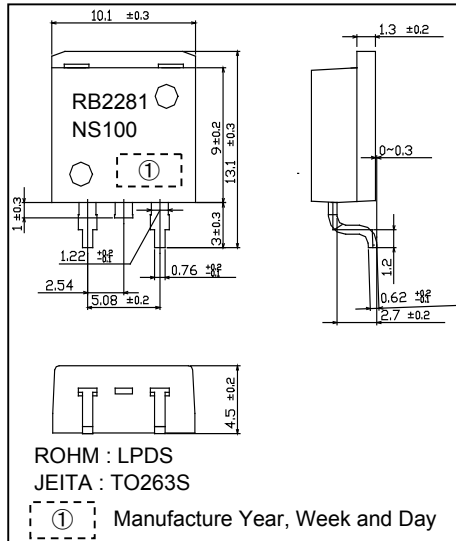
●Features

- 1) Cathode common type.
- 2) Low I_R
- 3) High reliability

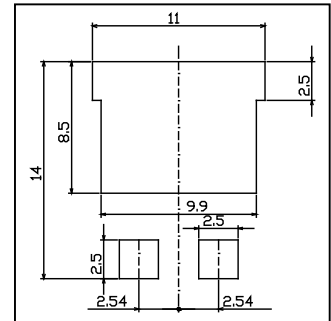
●Construction

Silicon epitaxial planer

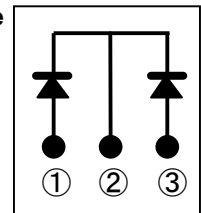
●Dimensions (Unit : mm)



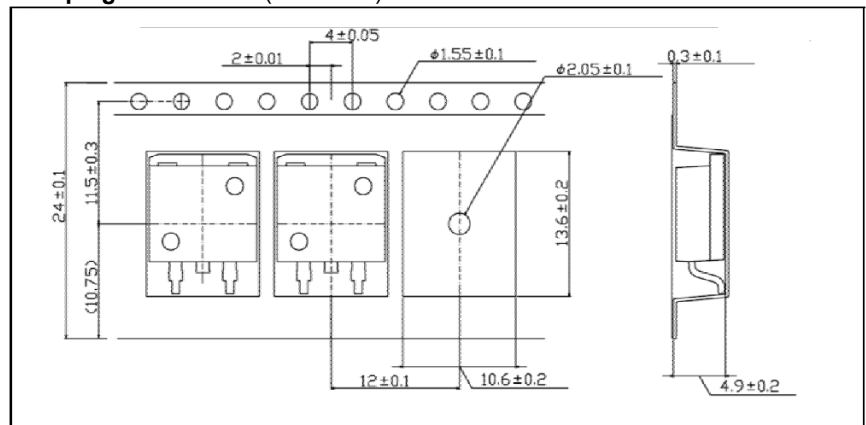
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



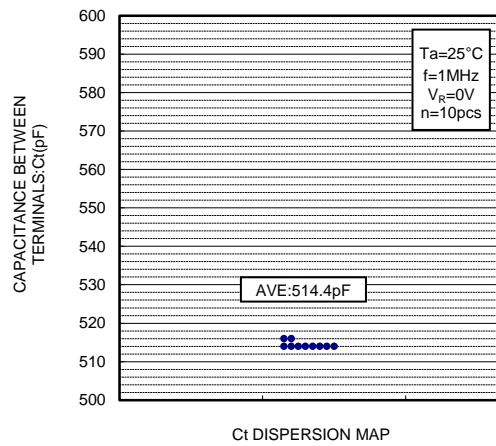
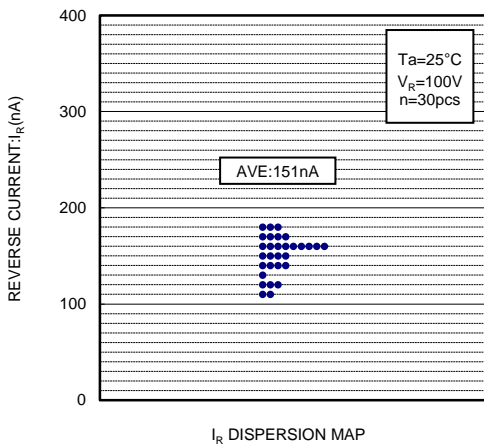
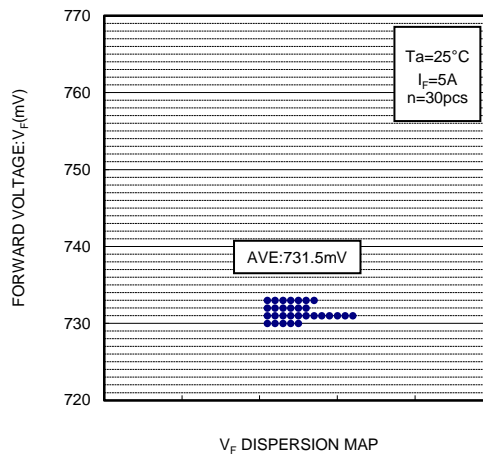
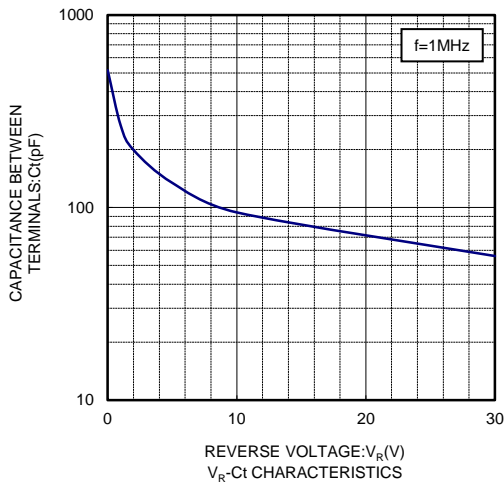
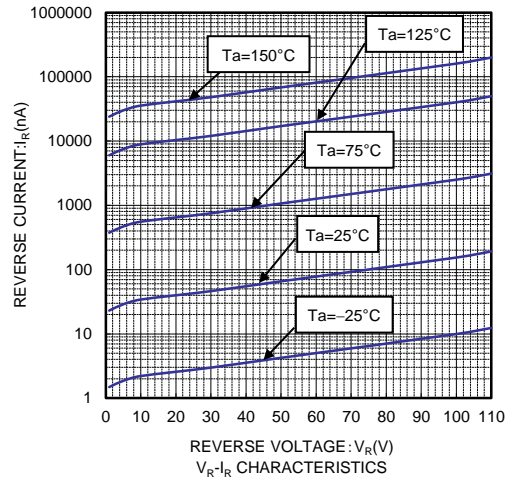
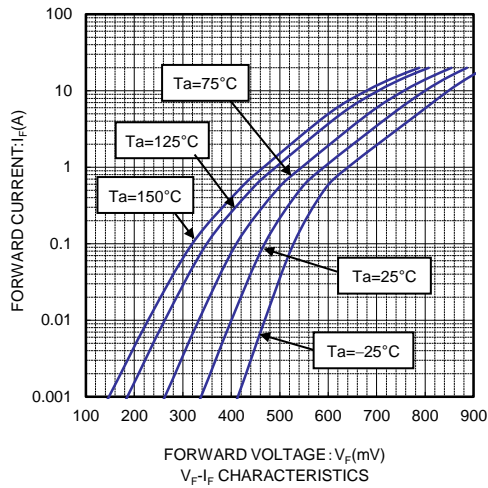
●Absolute maximum ratings (Tc=25°C)

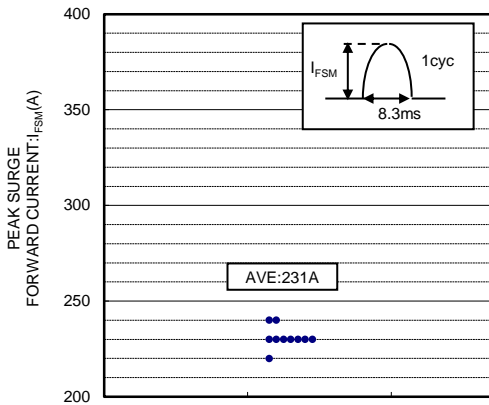
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	110	V
Reverse voltage (DC)	V_R	100	V
Average rectified forward current (*1)	I_o	30	A
Forward current surge peak (60Hz · 1cyc) (*1)	I_{FSM}	100	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

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

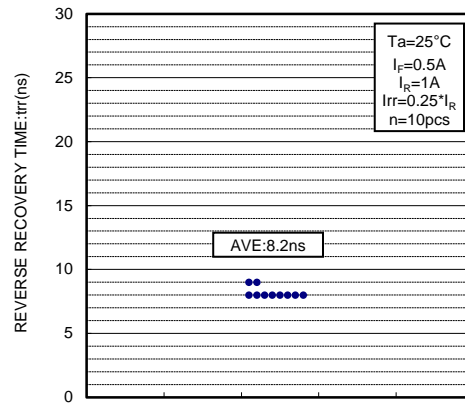
●Electrical characteristics (Tj=25°C)

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

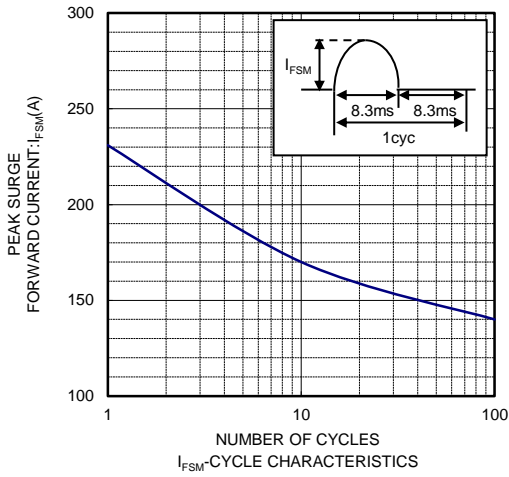




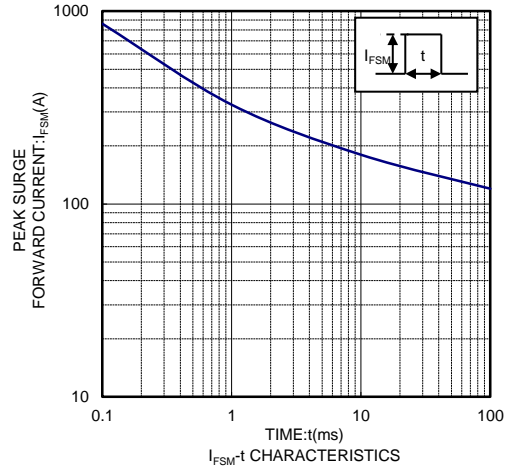
I_{FSM} DISPERSION MAP



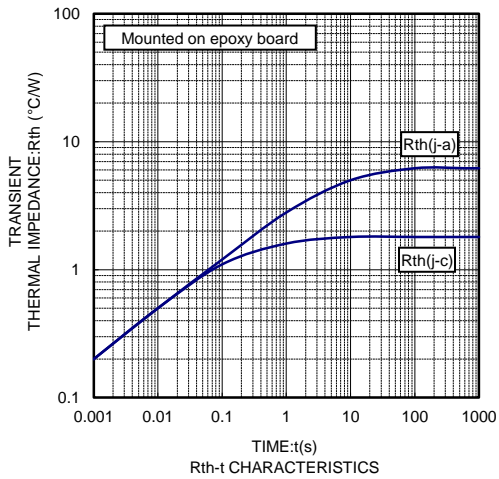
trr DISPERSION MAP



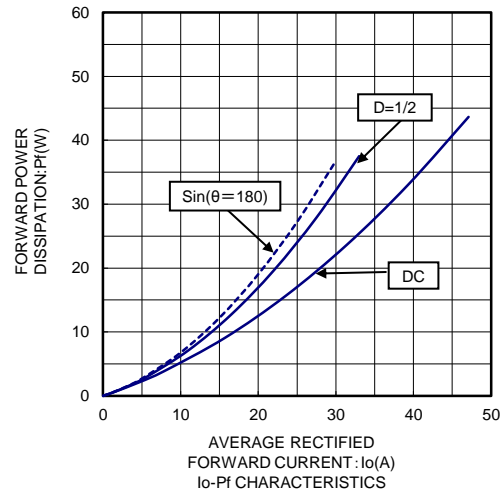
I_{FSM} CYCLE CHARACTERISTICS



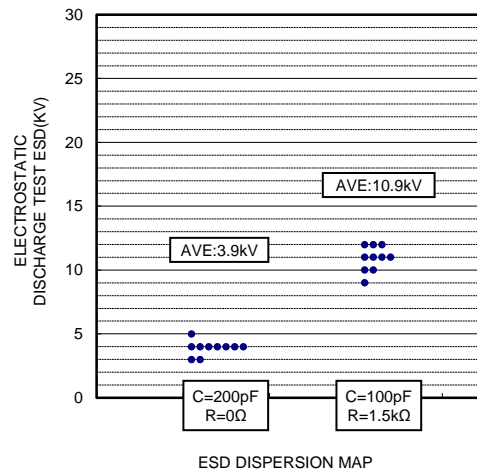
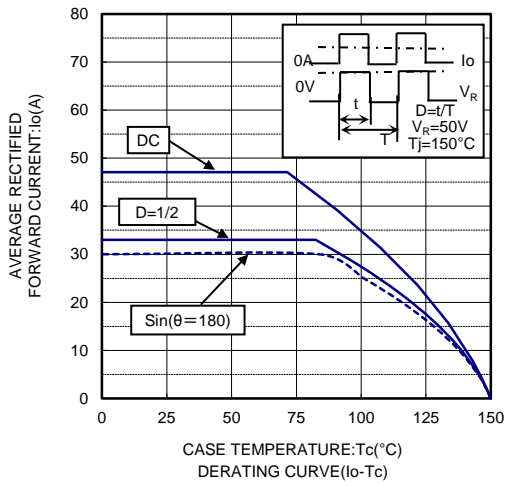
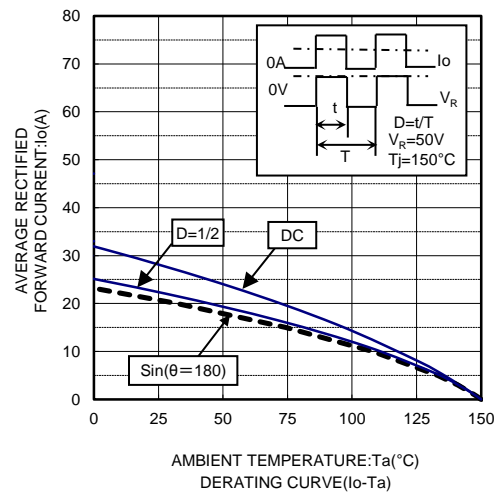
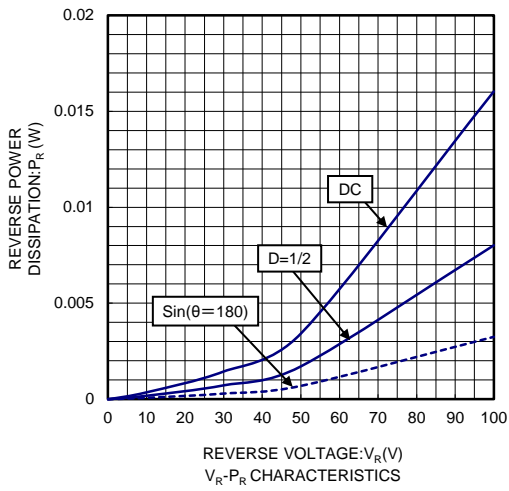
$I_{FSM} \cdot t$ CHARACTERISTICS



$R_{th} \cdot t$ CHARACTERISTICS



$I_o \cdot P_f$ CHARACTERISTICS



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