

Super Fast Recovery Diode

RF2001NS3D

●Series

Standard Fast Recovery

●Applications

General rectification

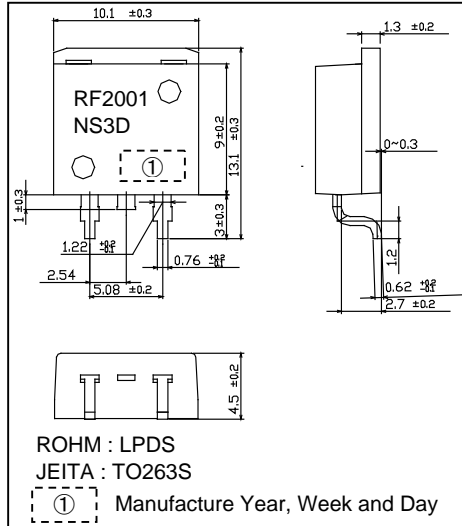
●Features

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

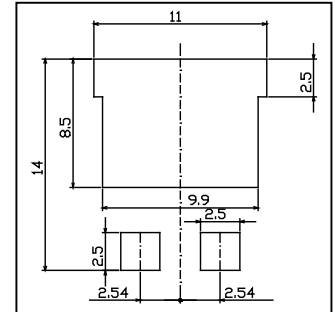
●Construction

Silicon epitaxial planer

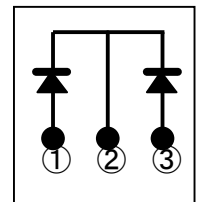
●Dimensions (Unit : mm)



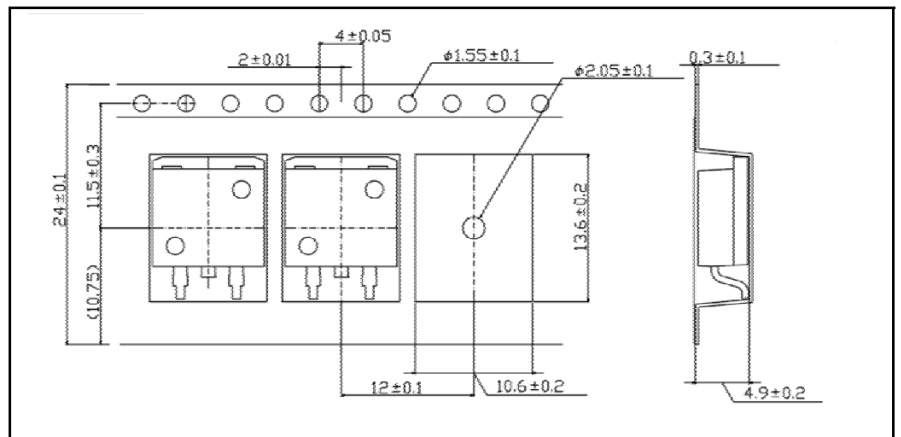
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

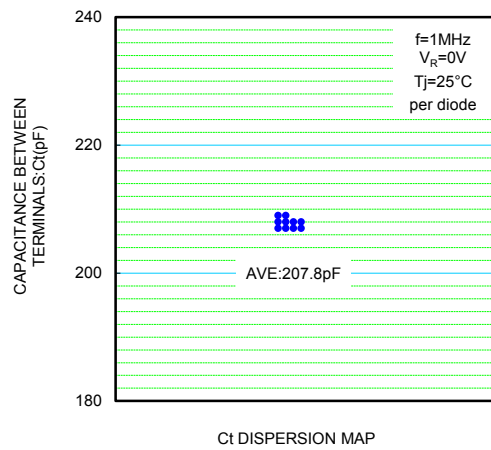
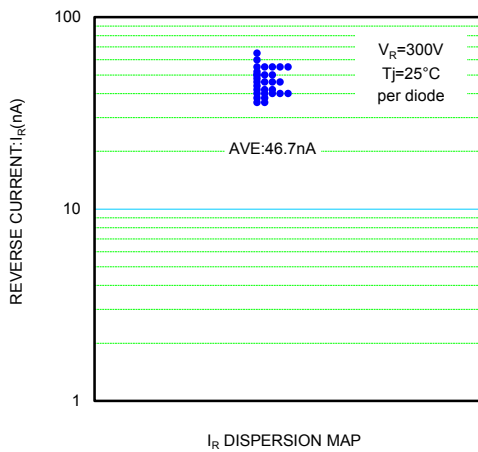
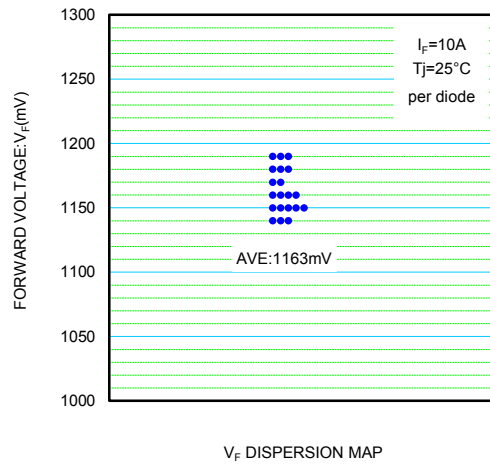
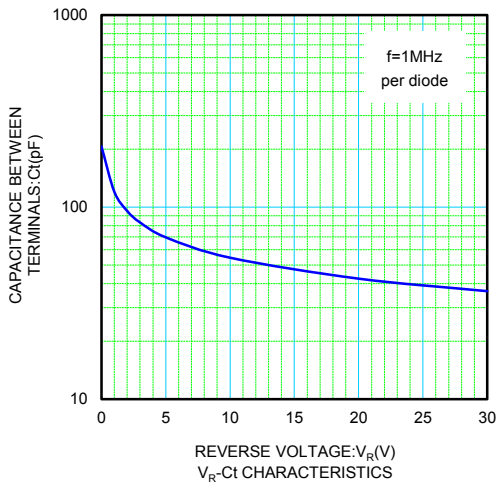
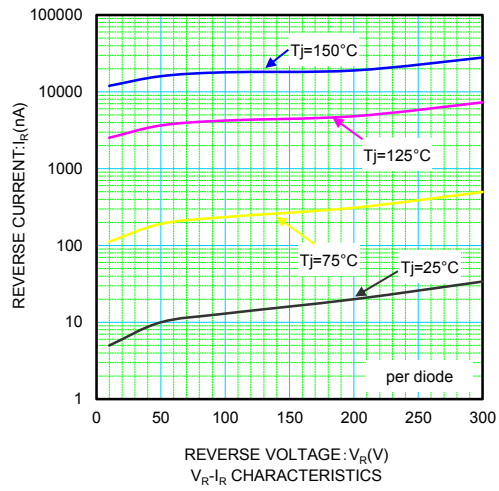
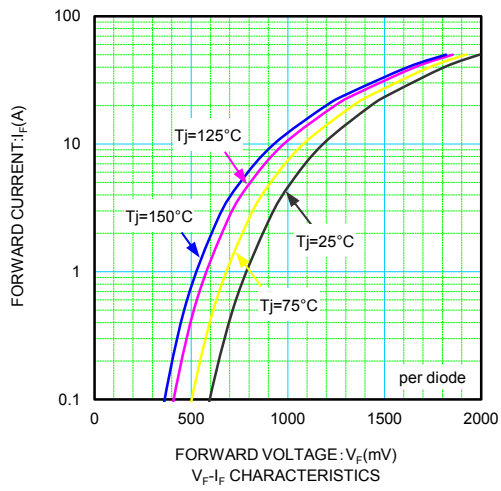


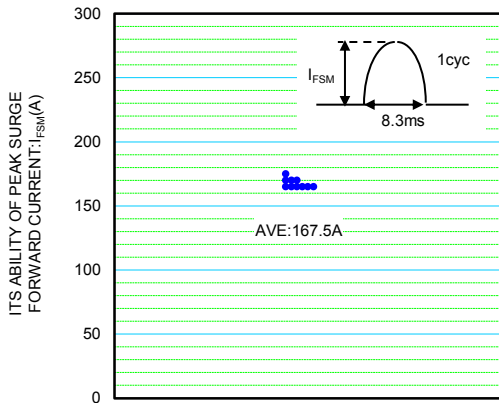
●Absolute maximum ratings (Tc=25°C)

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

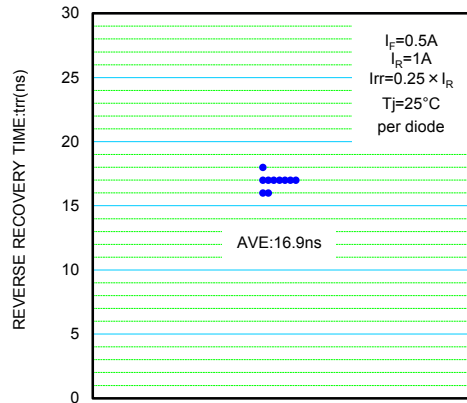
●Electrical characteristics (Tj=25°C, per diode)

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

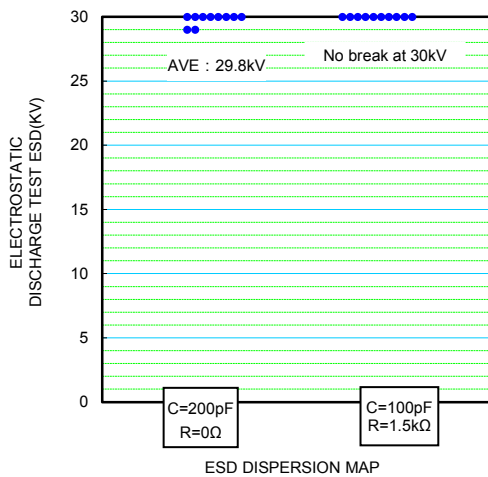
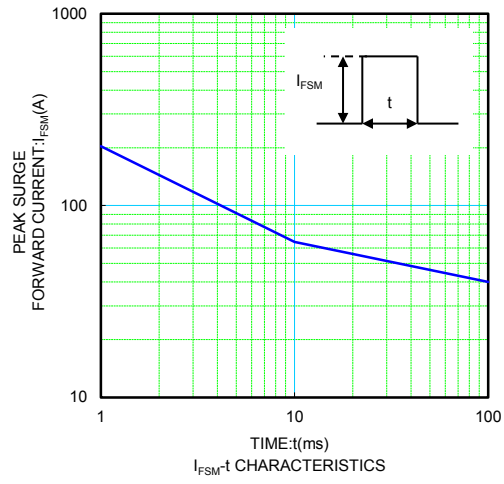
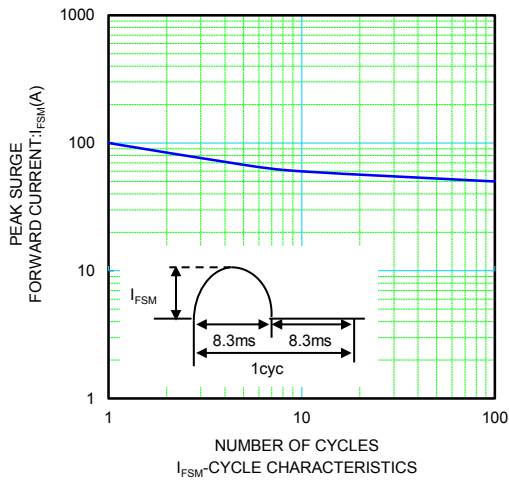




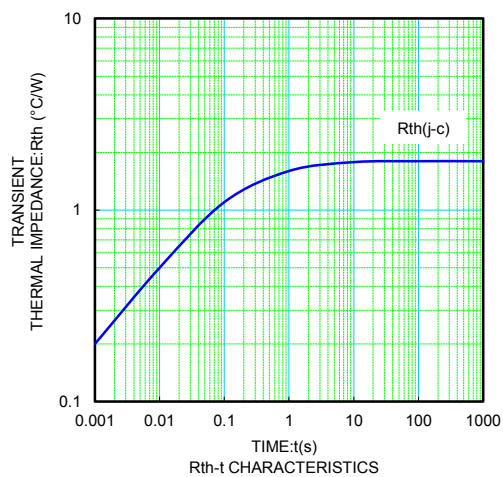
I_{FSM} DISPERSION MAP

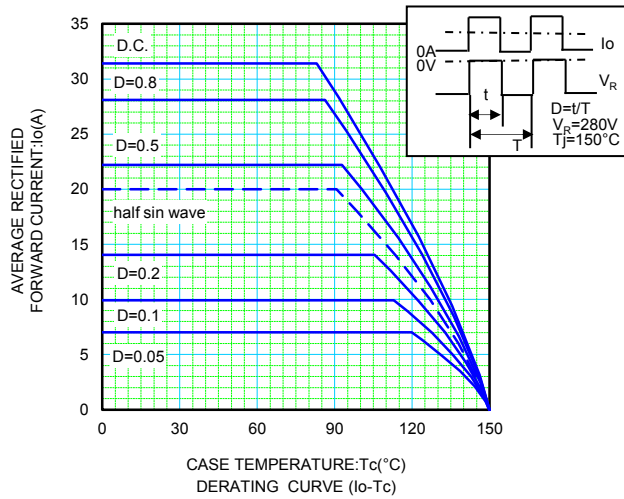
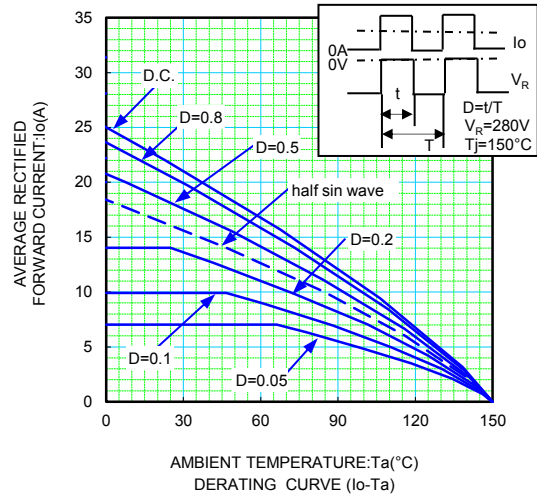
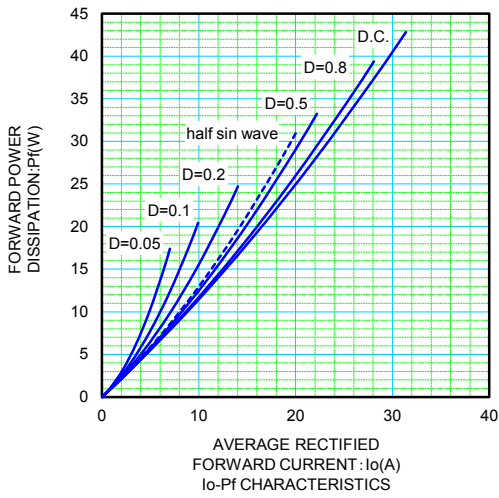


t_{tr} DISPERSION MAP



ESD DISPERSION MAP





Notes

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