

Super Fast Recovery Diode

RFN20NS4S

Serise

Standard Fast Recovery

Applications

General rectification

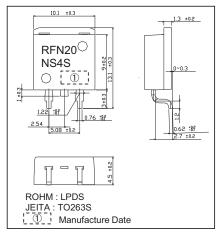
Features

- 1)Low switching loss
- 2)High current overload capacity

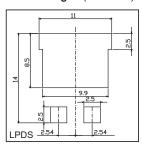
Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)

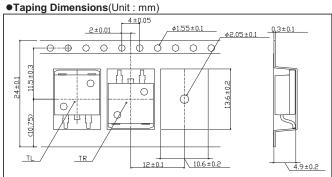


●Land Size Figure(Unit: mm)



Structure





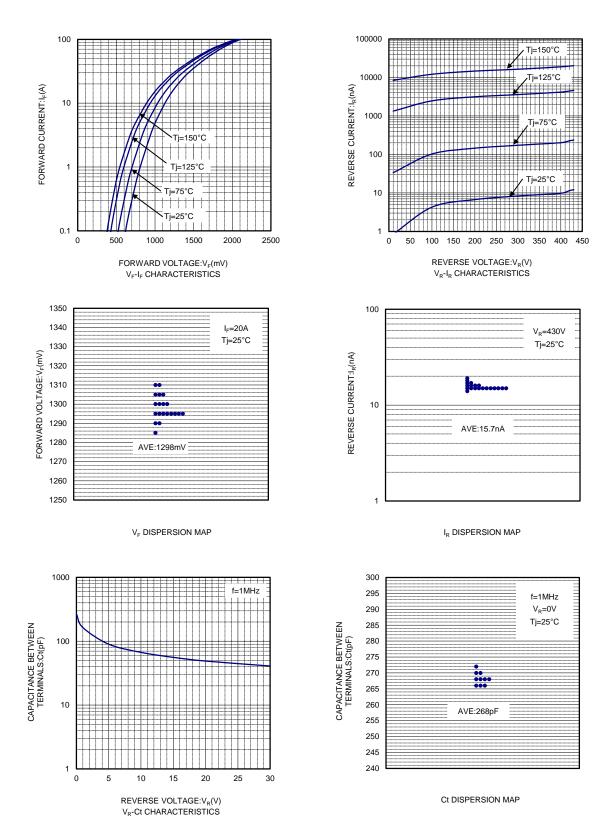
● Absolute Maximum Ratings(Tc=25°C)

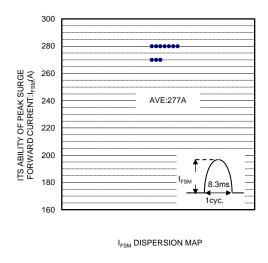
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		430	V
Reverse voltage	V_R	Direct voltage		430	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=30°C	20	А
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C (*1)		j=25°C ^(*1) 100	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to + 150	°C

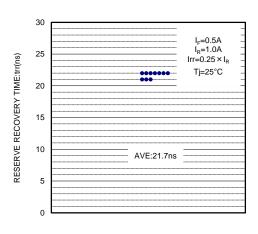
(*1) 1-3pin common circuit

●Electrical Characteristics(Tj=25°C)

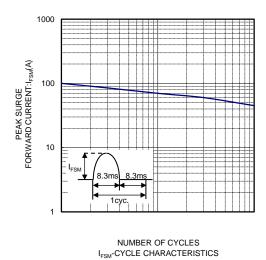
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =20A	_	1.3	1.55	V
Reverse current	I _R	V _R =430V	_	0.05	10	μA
Reverse recovery time	trr	I_F =0.5A, I_R =1A, I_R =0.25× I_R	_	22	30	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	3.0	°C/W

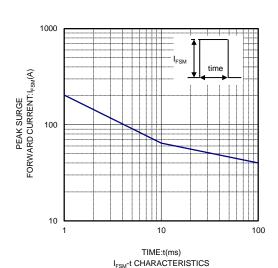






trr DISPERSION MAP





4

AVE:2.58kV

AVE:0.63kV

1

AVE:0.63kV

1

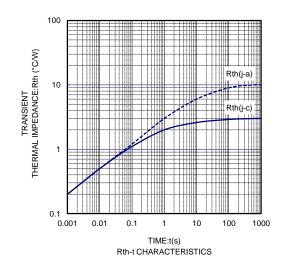
C=200pF

R=0Ω

C=100pF

R=1.5kΩ

ESD DISPERSION MAP



0 E

30

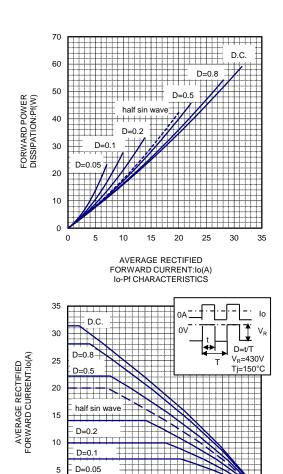
60

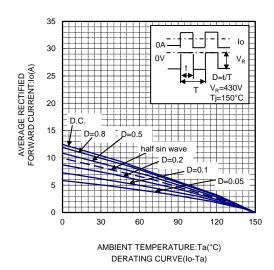
CASE TEMPARATURE:Tc(°C)
DERATING CURVE(Io-Tc)

90

120

150





Notes

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