

Super Fast Recovery Diode

RFN20NS6S

Serise

Standard Fast Recovery

Applications

General rectification

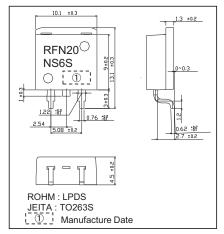
Features

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

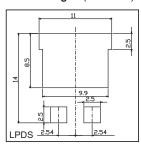
Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)

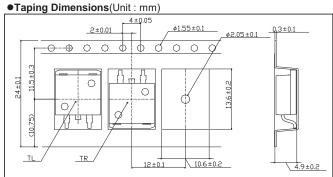


●Land Size Figure(Unit: mm)



Structure





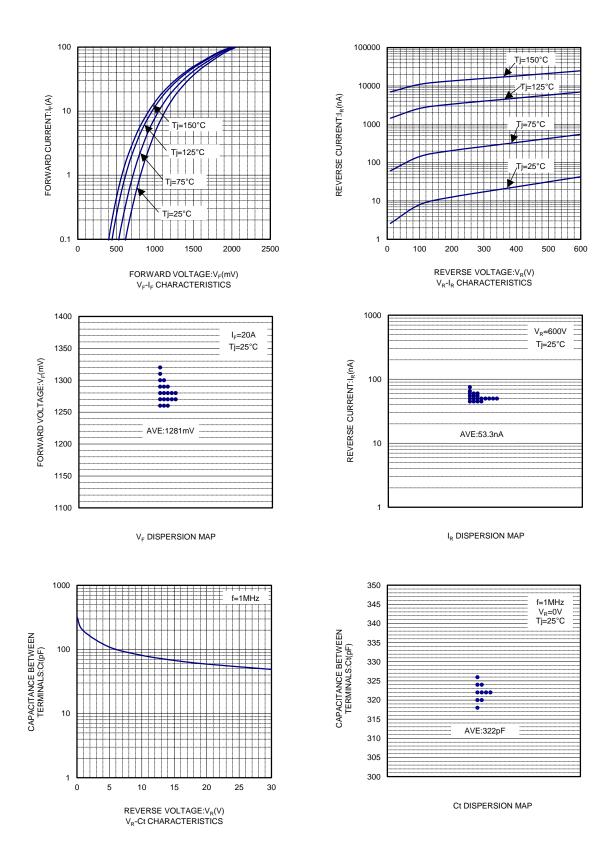
● Absolute Maximum Ratings(Tc=25°C)

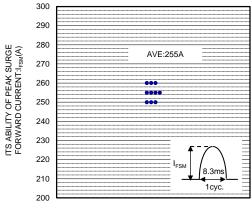
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=47°C	20	А
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C (*1)		j=25°C ^(*1) 100	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

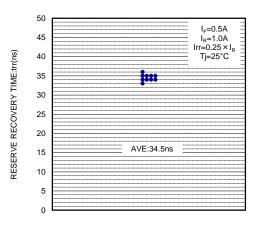
(*1) 1-3pin common circuit

●Electrical Characteristics(Tj=25°C)

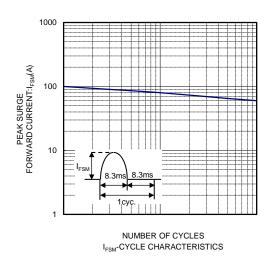
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =20A	_	1.25	1.55	V
Reverse current	I _R	V _R =600V	_	0.05	10	μA
Reverse recovery time	trr	I_F =0.5A, I_R =1A, I_R =0.25× I_R	_	40	60	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	2.5	°C/W

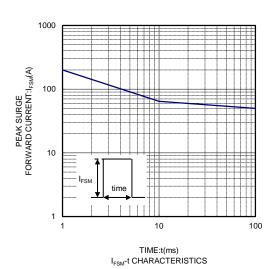




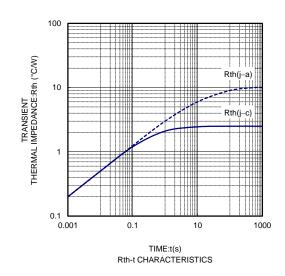


I_{FSM} DISPERSION MAP trr DISPERSION MAP

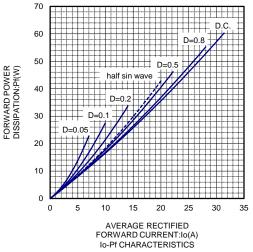




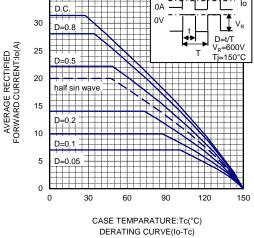
10 9 8 ELECTROSTATIC DISCHARGE TEST ESD(KV) AVE:5.12kV 6 88800 5 AVE:1.34kV **388**0 1 0 C=200pF C=100pF R=0Ω ESD DISPERSION MAP

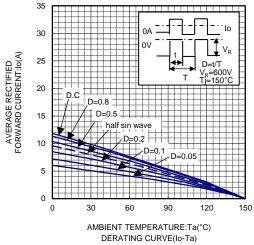


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