

### Super Fast Recovery Diode RFN20NS3S

•Serise Standard Fast Recovery

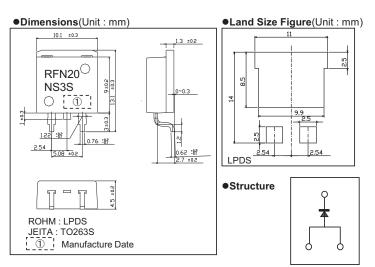
•Applications General rectification

Features

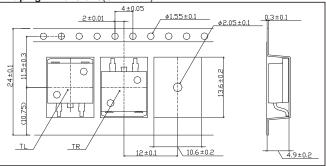
Low switching loss
 High current overload capacity

#### Construction

Silicon epitaxial planer type



•Taping Dimensions(Unit : mm)



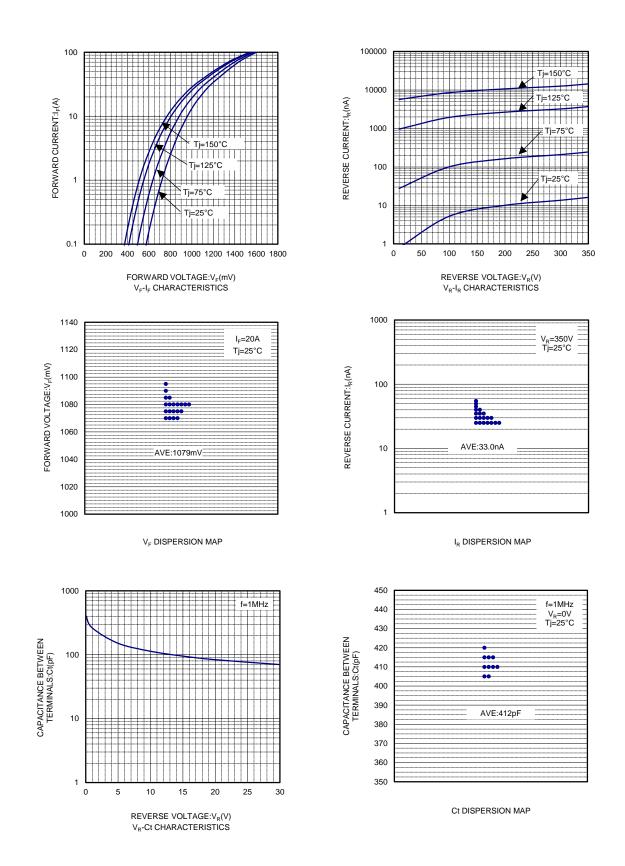
#### •Absolute Maximum Ratings(Tc=25°C)

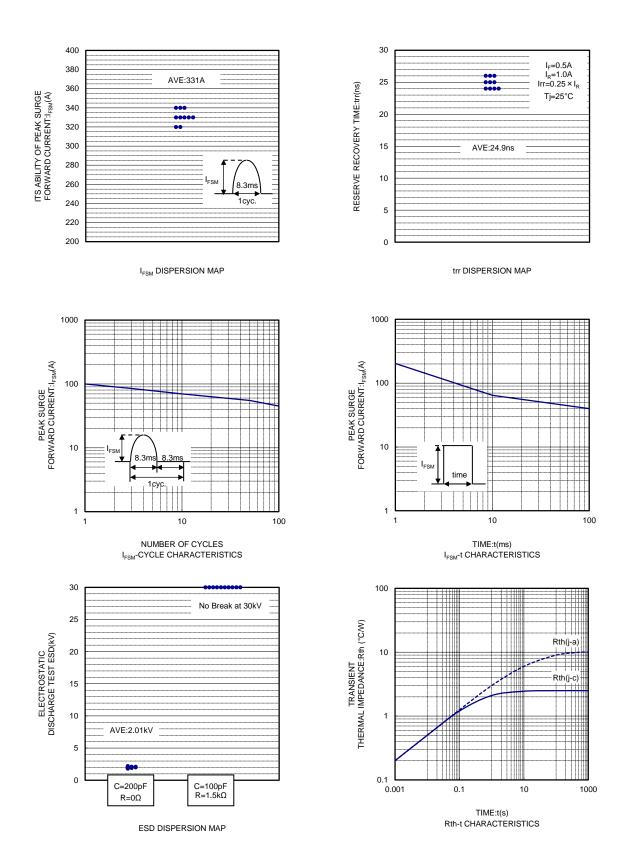
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V <sub>RM</sub>	Duty≦0.5		350	V
Reverse voltage	V <sub>R</sub>	Direct voltage		350	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=71°C	20	А
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave , Non-repetitive at	Tj=25°C <sup>(*1)</sup>	100	А
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

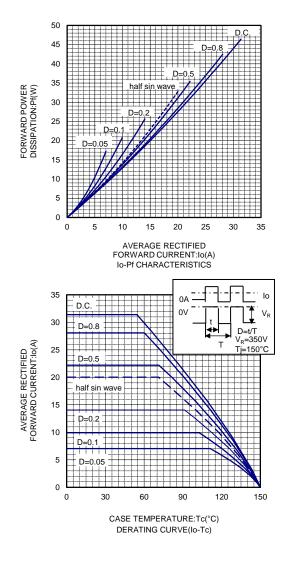
(\*1) 1-3pin common circuit

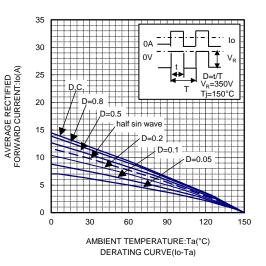
#### •Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =20A	-	1.1	1.35	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =350V	-	0.05	10	μA
Reverse recovery time	trr	$I_F=0.5A, I_R=1A, Irr=0.25 \times I_R$	-	25	35	ns
Thermal resistance	Rth(j-c)	Junction to case	-	-	2.5	°C/W









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