

Super Fast Recovery Diode

RFN5TF8S

●Serise

Standard Fast Recovery

Applications

General rectification

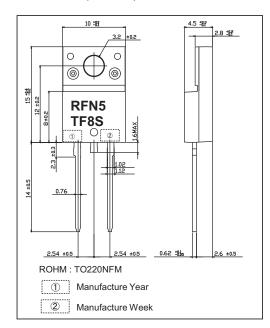
● Features

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

Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)



Structure

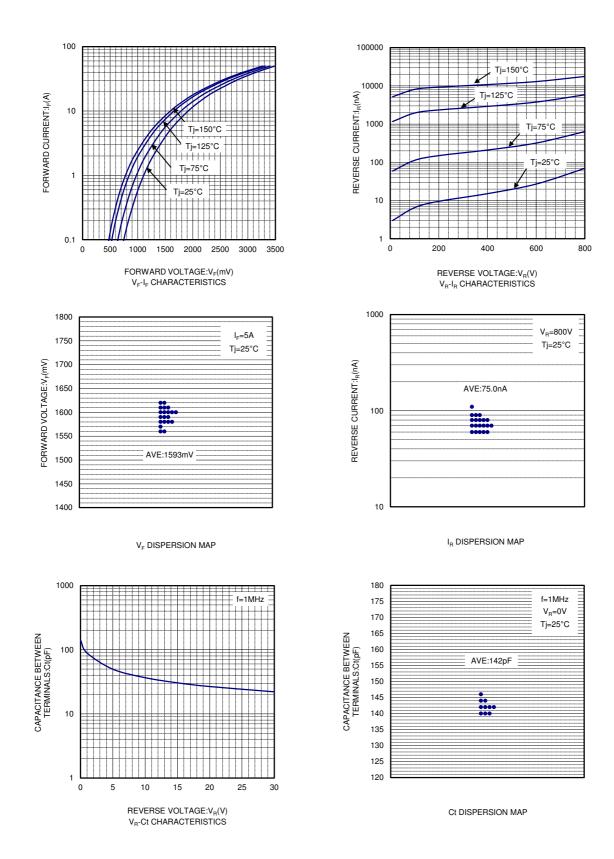


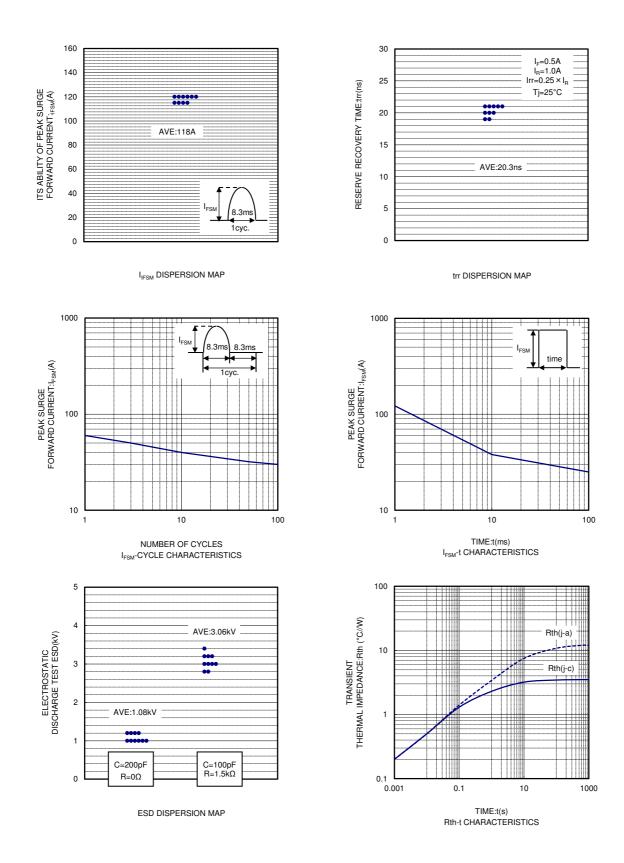
● Absolute Maximum Ratings (Tc=25°C)

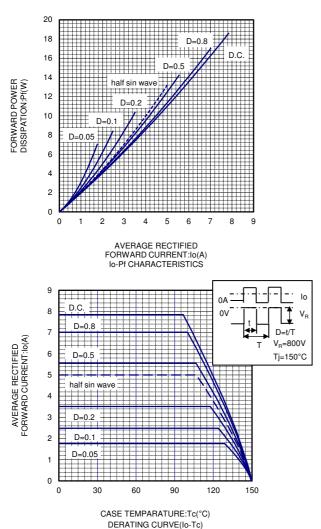
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		800	V
Reverse voltage	V_R	Direct voltage		800	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=106°C	5	А
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C		Tj=25°C 60	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

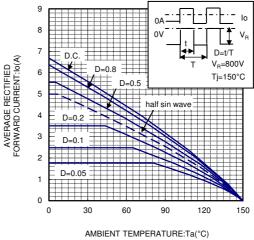
●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =5A	_	1.6	2.1	V
Reverse current	I _R	V _R =800V	_	0.05	10	μA
Reverse recovery time	trr	I_F =0.5A, I_R =1A, I_R =0.25× I_R	_	20	40	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	3.5	°C/W









DERATING CURVE(Io-Ta)

Notes

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