

Super Fast Recovery Diode

RFN20TB4S

●Serise

Standard Fast Recovery

Applications

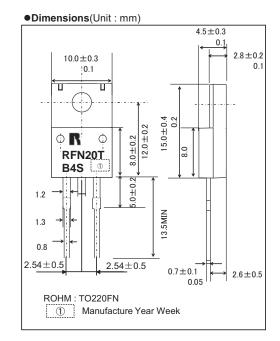
General rectification

● Features

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

Construction

Silicon epitaxial planer type



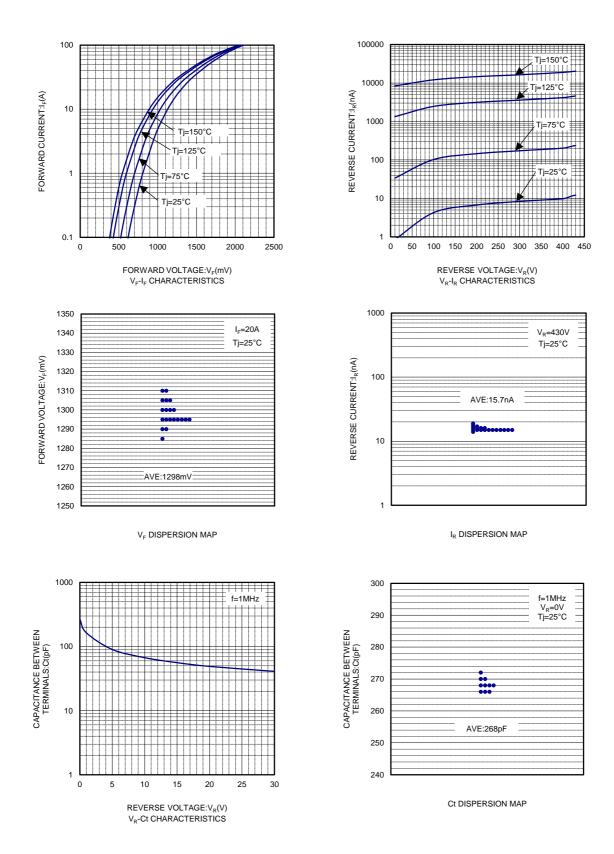


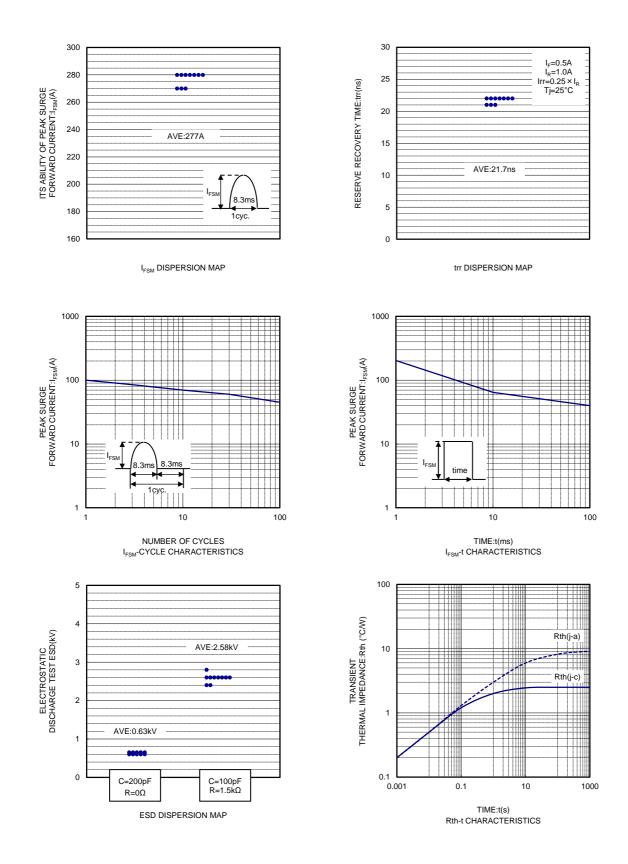
● Absolute Maximum Ratings(Tc=25°C)

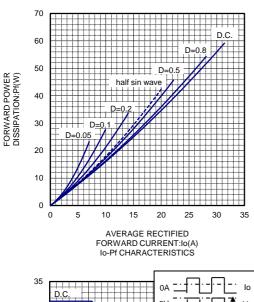
Parameter	Symbol	Conditions	Limits	Unit	
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	430	V	
Reverse voltage	V_R	Direct voltage	430	V	
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=49°C	20	А
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C		25°C 100	
Junction temperature	Tj		150	°C	
Storage temperature	Tstg			-55 to +150	°C

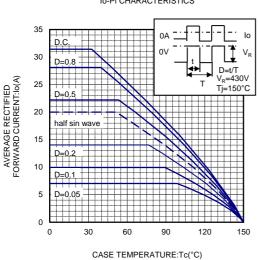
●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =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	_	_	2.5	°C/W

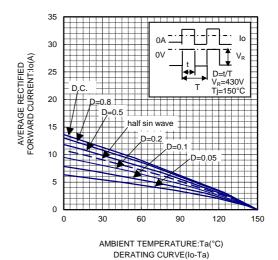








DERARING CURVE(Io-Tc)



Notes

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