

Super Fast Recovery Diode

RF1501TF3S
●Series

Standard Fast Recovery

●Applications

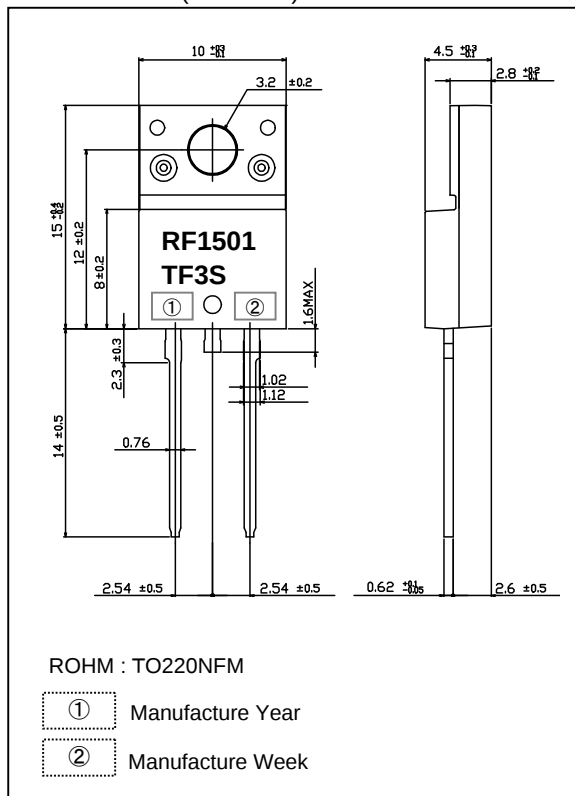
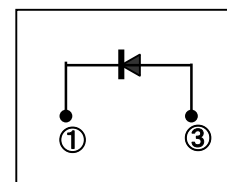
General rectification

●Features

- 1) Ultra low switching loss
- 2) High current overload capacity

●Construction

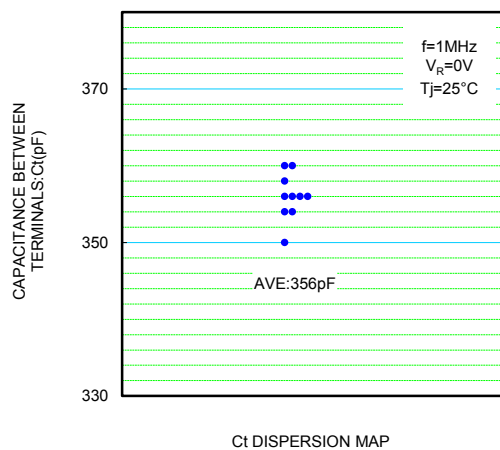
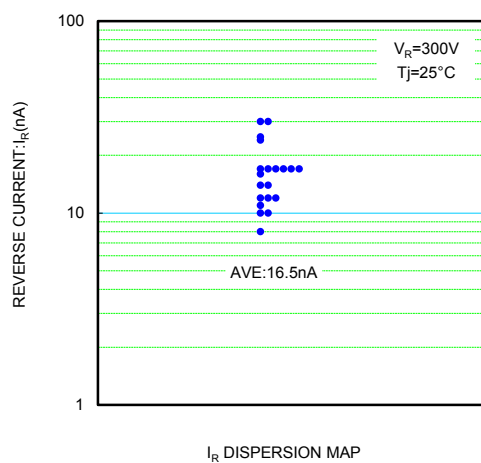
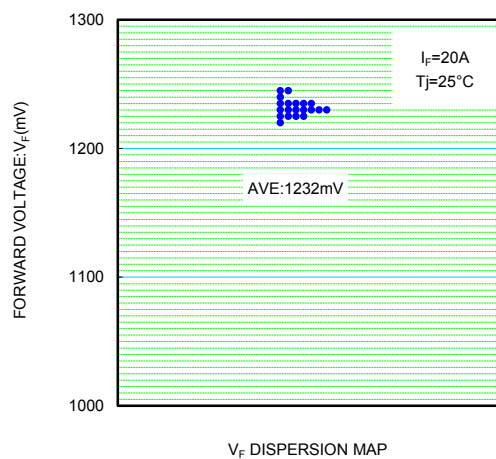
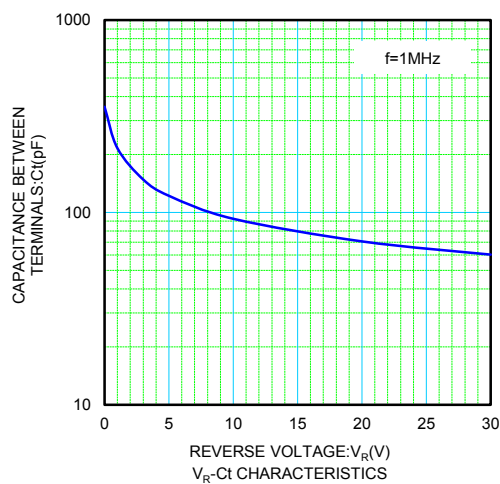
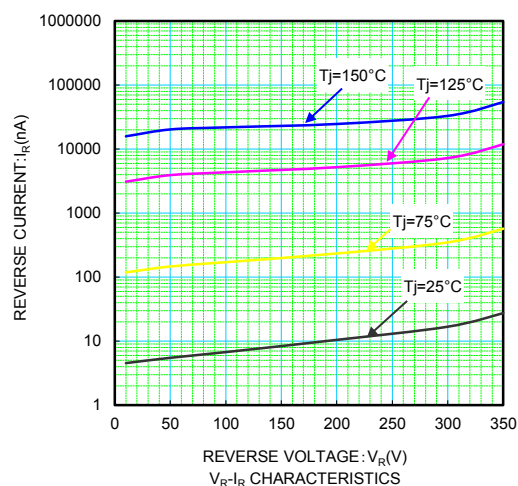
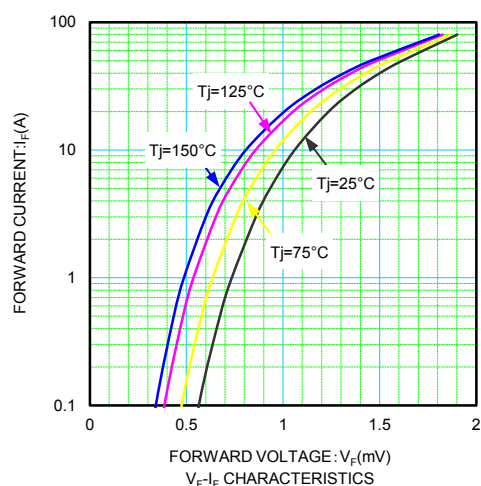
Silicon epitaxial planer

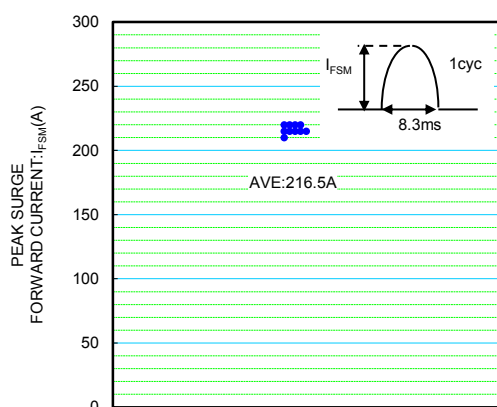
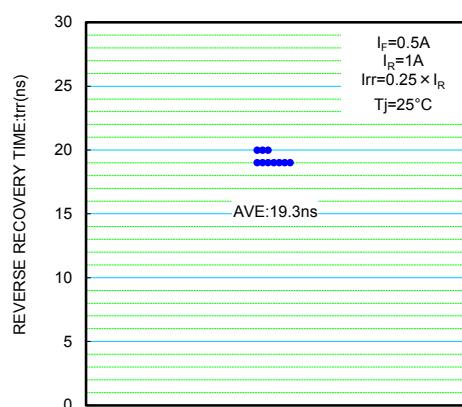
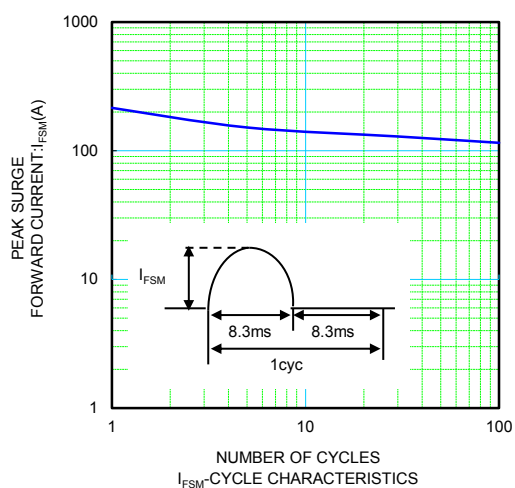
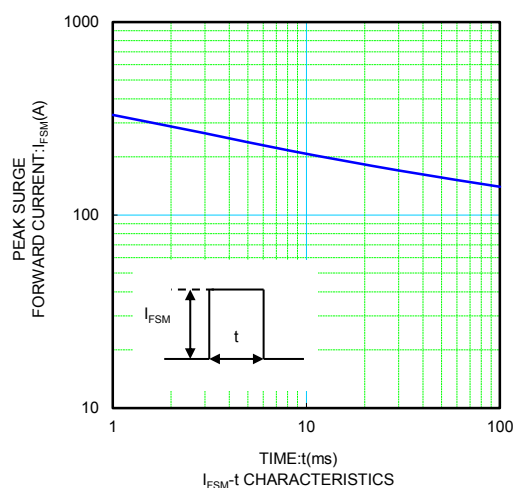
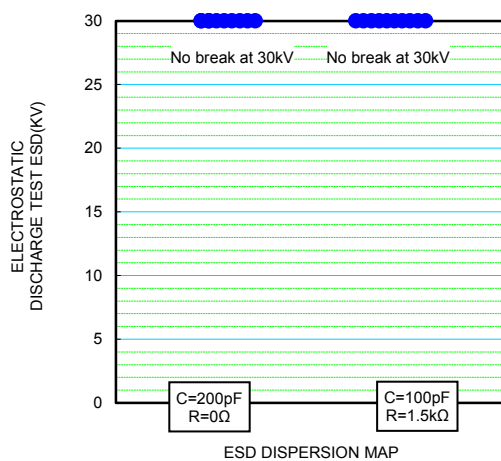
●Dimensions (Unit : mm)

●Structure

●Absolute maximum ratings (Tc=25°C)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty $\leq$ 0.5	350	V
Reverse voltage	V_R	Direct voltage	300	V
Average rectified forward current	I_O	60Hz half sin wave, Resistance load, Tc=37°C	20	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C	100	A
Junction temperature	Tj		150	°C
Storage temperature	Tstg		-55 to +150	°C

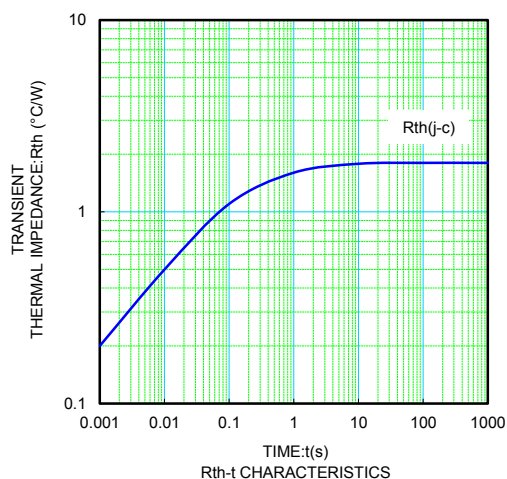
●Electrical characteristics (Tj=25°C)

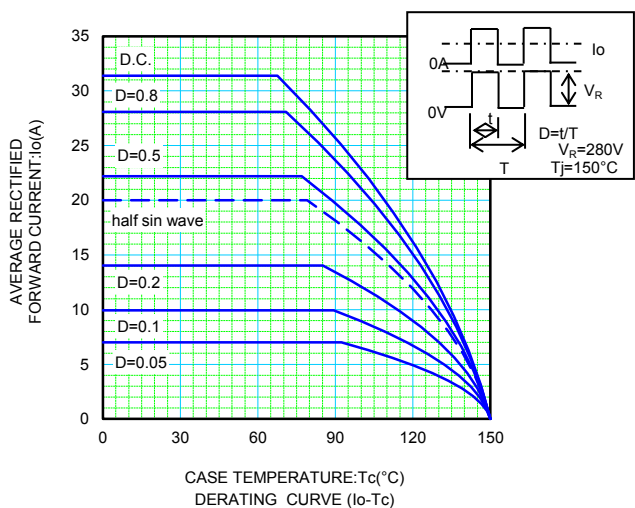
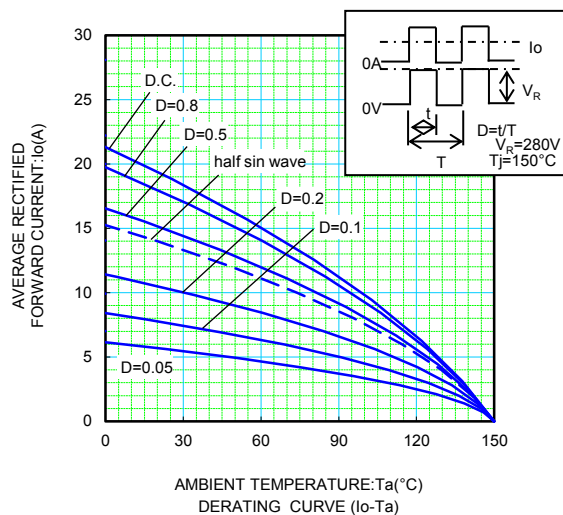
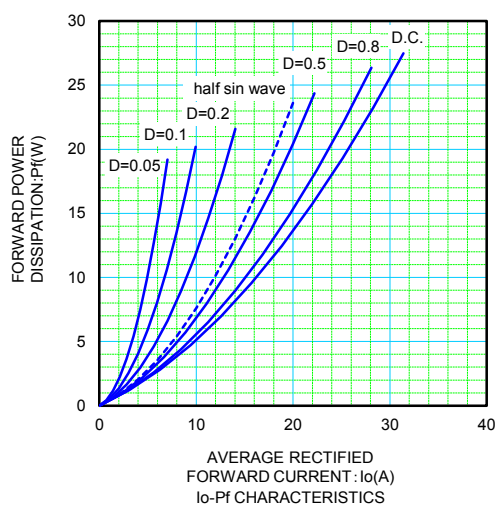
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=20A$	—	1.35	1.5	V
Reverse current	I_R	$V_R=300V$	—	0.06	10	μA
Reverse recovery time	trr	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \times I_R$	—	22	30	ns
Thermal resistance	Rth(j-c)	junction to case	—	—	3	°C/W



 I_{FSM} DISPERSION MAP t_{rr} DISPERSION MAP I_{FSM} -CYCLE CHARACTERISTICS I_{FSM} - t CHARACTERISTICS

ESD DISPERSION MAP

 R_{th} - t CHARACTERISTICS



Notes

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