

Super Fast Recovery Diode

RFX10TF6S

Series

Ultra Fast Recovery

Applications

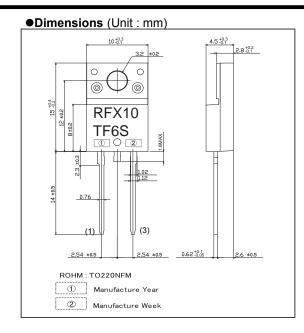
General rectification

● Features

- 1)Single type.(TO-220)
- 2)High switching speed
- 3)Soft Recovery

● Construction

Silicon epitaxial planer



●Structure



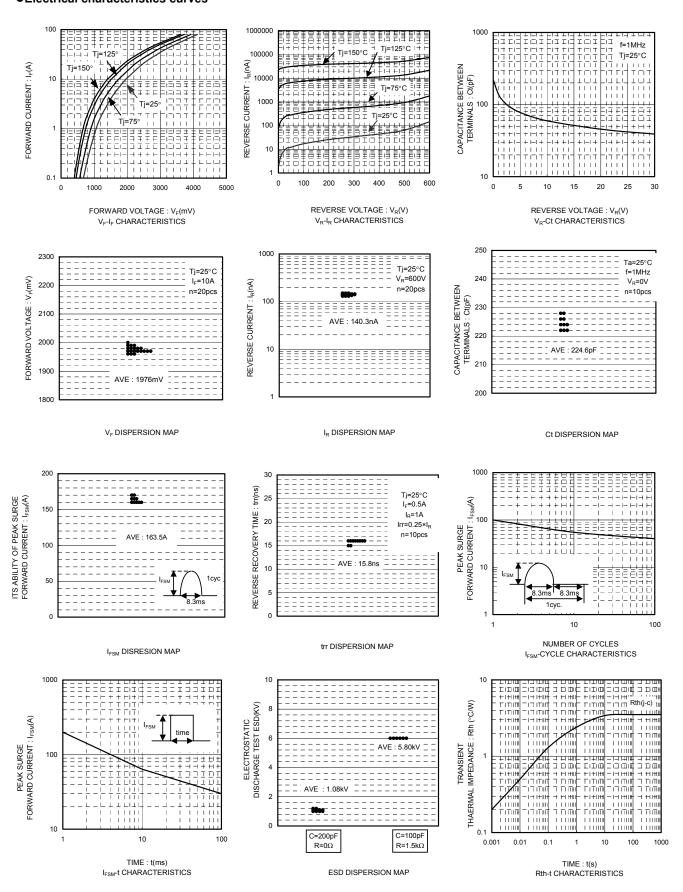
●Absolute maximum ratings (Tc=25°C)

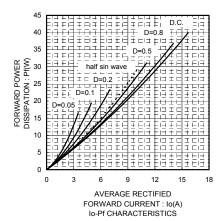
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty ≤0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified forward current	lo	60Hz half sin wave, Resistance load,	Tc=57°C	10	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C		100	А
Junction temperature	Tj		150	°C	
Storage temperature	Tstg			-55 to +150	°C

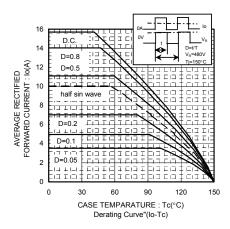
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit			
Forward voltage	V_{F}	I _F =10A	-	2	2.5	V			
Reverse current	I _R	V _R =600V	_	0.15	10	μΑ			
Reverse recovery time	trr	I_F =0.5A, I_R =1A, I_R =0.25× I_R	-	16	30	ns			
Thermal Resistance	Rth(j-c)	junction to case	-	-	3.5	°C / W			

•Electrical characteristics curves







Notes

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