

Super Fast Recovery Diode

RFU20TM5S

Series

Ultra Fast Recovery

Applications

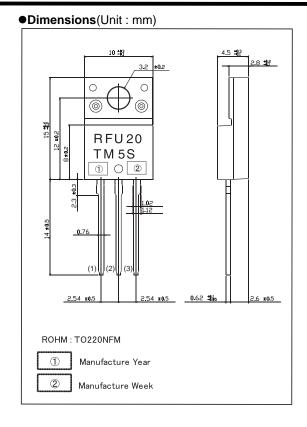
General rectification

● Features

- 1)Cathode common Single type.(TO-220)2)Ultra high switching speed

Construction

Silicon epitaxial planer



<u>Structure</u>



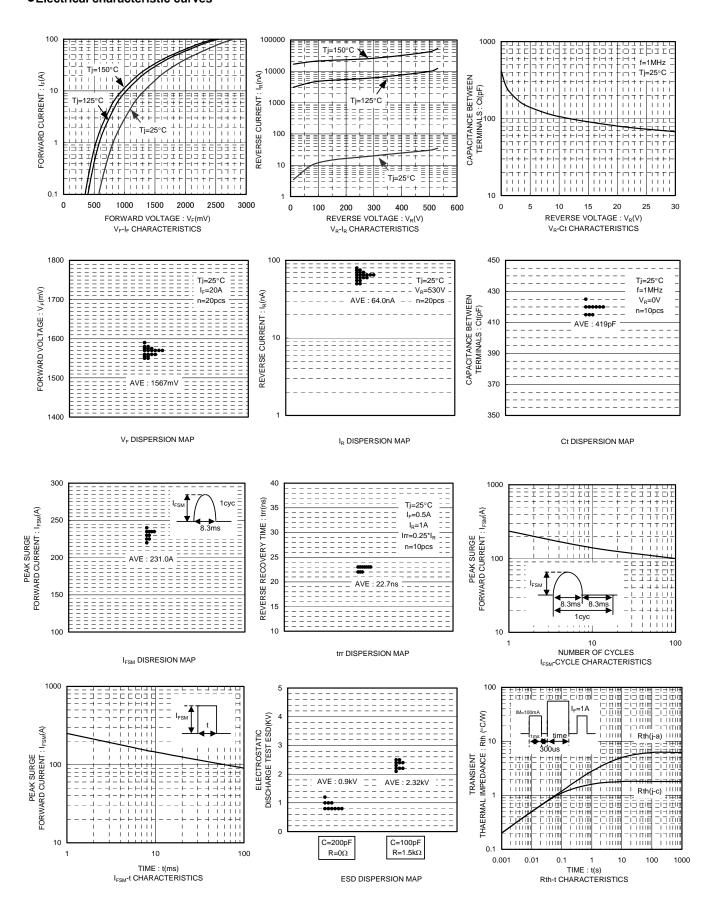
● Absolute maximum ratings (Tc=25°C)

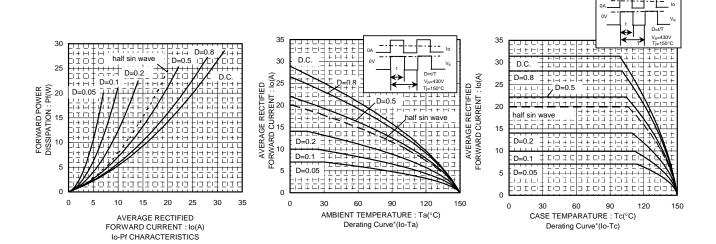
Parameter	Symbol	Conditions	Limits	Unit	
Repetitive peak reverse voltage	V_{RM}	Duty⊴0.5		530	V
Reverse voltage	V_R	Direct voltage		530	V
Average rectified forward current	lo	60Hz half sin wave, Resistance load,	Tc=95°C	20	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive		100	А
		one cycle peak value, Tj=25°C			
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	-	1.65	2	V
Reverse current	I_R	V _R =530V	-	0.05	10	μA
Reverse recovery time	trr	$I_F=0.5A$, $I_R=1A$, $I_R=0.25 \times I_R$	-	23	30	ns
Thermal Resistance	Rth(j-c)	junction to case	-	-	1.8	°C/W

•Electrical characteristic curves





Notes

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