

Super Fast Recovery Diode

RFUS20TM4S

Series

Ultra Fast Recovery

Applications

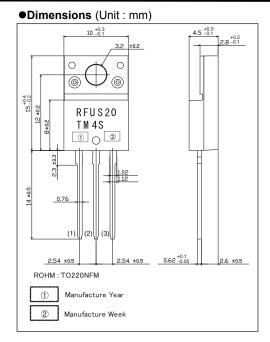
General rectification

Features

1)Ultra low switching loss2)High current overload capacity3)Cathode common single type

●Construction

Silicon epitaxial planer



Structure



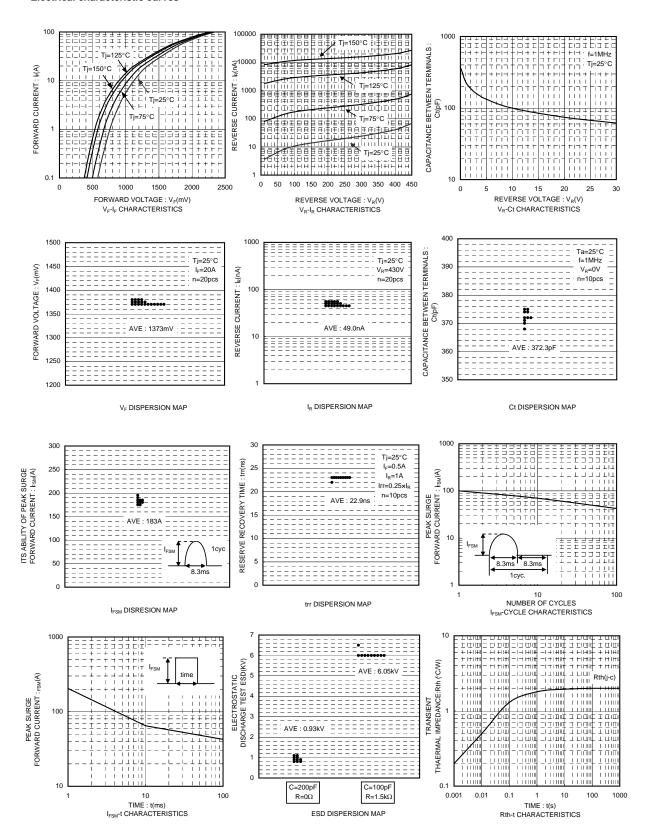
●Absolute maximum ratings (Tc=25°C)

Parameter	Symbol	Conditions	Limits	Unit							
Repetitive peak reverse voltage	V_{RM}	Duty⊴0.5		430	V						
Reverse voltage	V_R	Direct voltage	430	V							
Average rectified forward current	lo	60Hz half sin wave, Resistance load,	Tc=68°C	20	Α						
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25 °C		100	Α						
Junction temperature	Tj			150	°C						
Storage temperature	Tstg			-55to+150	°C						

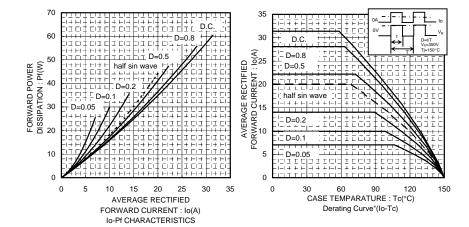
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =20A	-	1.4	1.6	V
Reverse current	I_R	V _R =430V	-	0.05	10	μA
Reverse recovery time	trr	I _F =0.5A,I _R =1A,Irr=0.25×I _R	-	24	35	ns
Thermal resistance	Rth(j-c)	junction to case	-	-	2	°C/W

•Electrical characteristic curves



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