

Super Fast Recovery Diode

RFUS20TM4S

Series

Ultra Fast Recovery

Applications

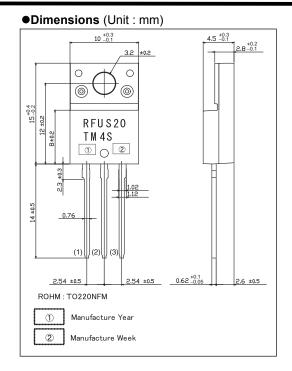
General rectification

● Features

- 1)Ultra low switching loss
- 2)High current overload capacity
- 3)Cathode common single type

Construction

Silicon epitaxial planer



Structure



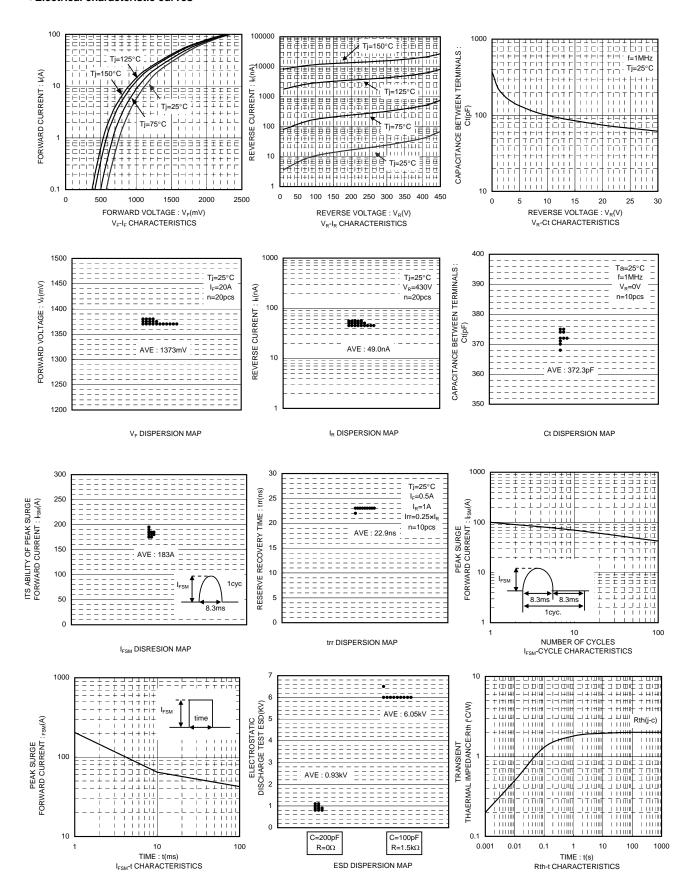
● Absolute maximum ratings (Tc=25°C)

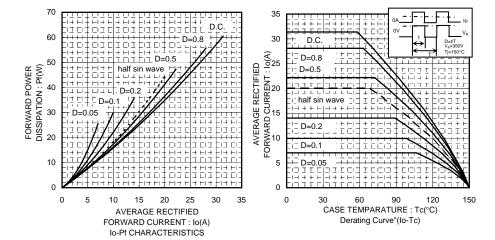
Parameter	Symbol	Conditions	Limits	Unit	
Repetitive peak reverse voltage	V_{RM}	Duty⊴0.5		430	V
Reverse voltage	V_R	Direct voltage	430	V	
Average rectified forward current	lo	60Hz half sin wave, Resistance load,	Tc=68°C	20	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle 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, I_R =0.25× I_R	-	24	35	ns
Thermal resistance	Rth(j-c)	junction to case	-	-	2	°C/W

•Electrical characteristic curves





Notes

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