

Super Fast Recovery Diode

RFUS20TM4S

•Series Ultra Fast Recovery

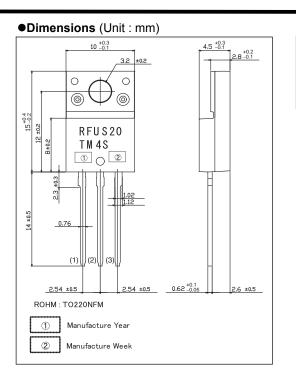
•Applications General rectification

Features

Ultra low switching loss
High current overload capacity
Cathode common single type

Construction

Silicon epitaxial planer



Structure



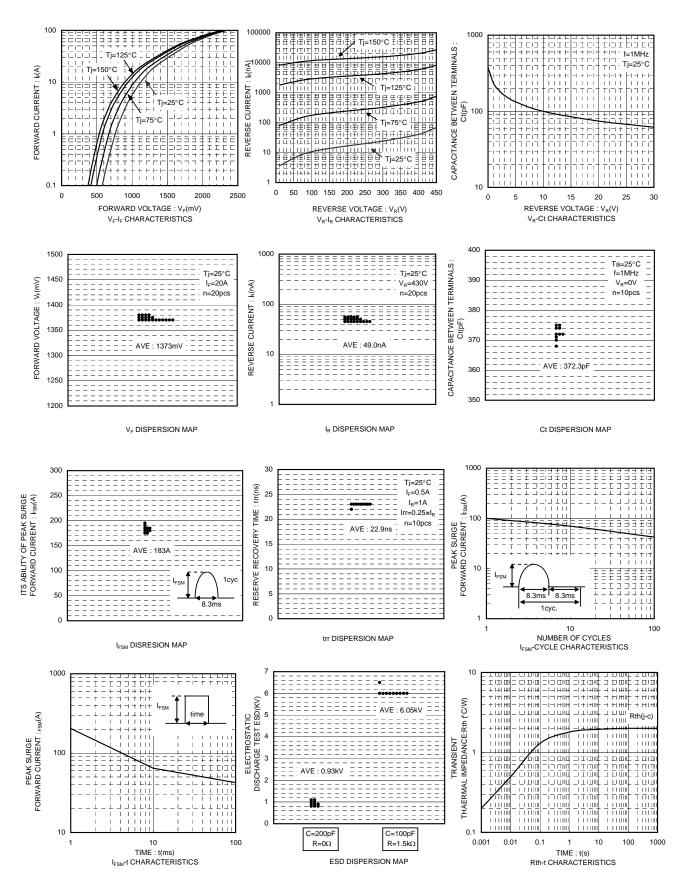
•Absolute maximum ratings (Tc=25°C)

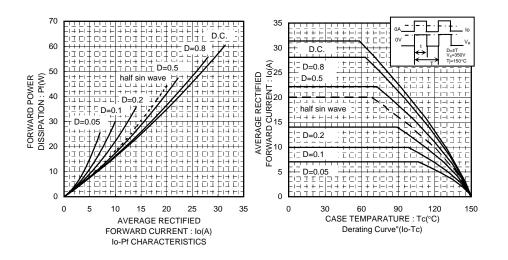
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V _{RM}	Duty⊴0.5		430	V
Reverse voltage	V _R	Direct voltage		430	V
Average rectified forward current	lo	60Hz half sin wave, Resistance load,	Tc=68°C	20	А
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-rep one cycle peak value, Tj=2		100	А
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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