

Super Fast Recovery Diode

RFUS20TM6S

Series

Ultra Fast Recovery

Applications

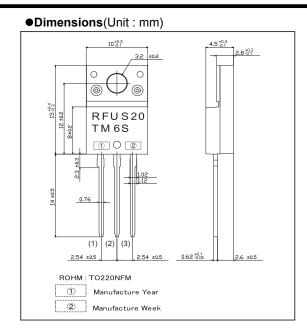
General rectification

Features

1)Cathode Common Single type.(TO-220)2)Ultra High switching speed

●Construction

Silicon epitaxial planar



Structure



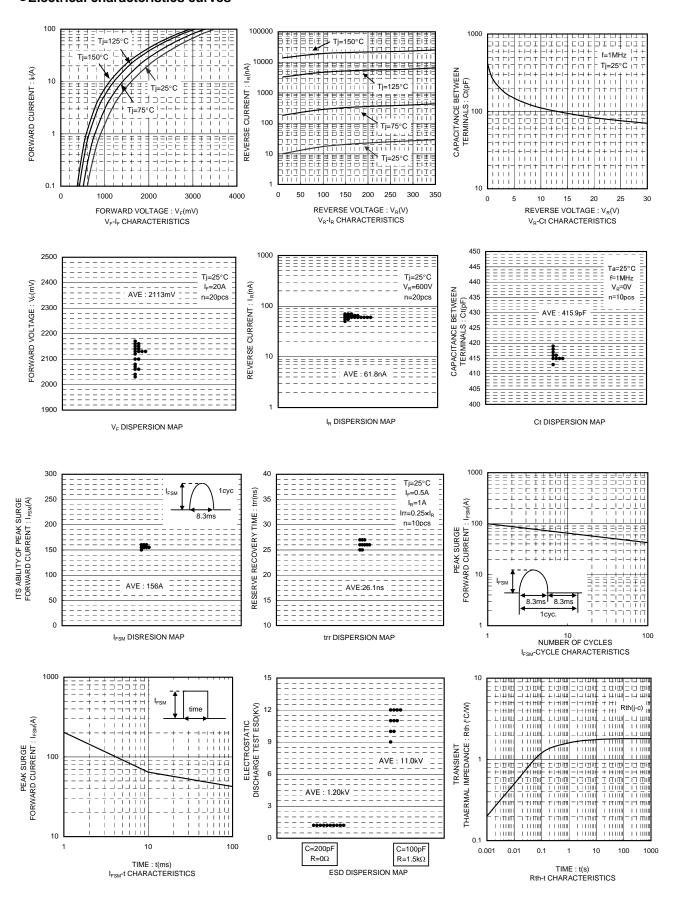
●Absolute maximum ratings(Tc=25°C)

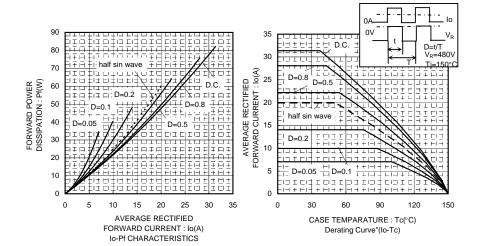
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified forward current	lo	60Hz half sin wave, Resistance load,	Tc=50°C	20	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive		100	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	_	2.3	2.8	V
Reverse current	I _R	V _R =600V	_	0.05	10	μA
Reverse recovery time	trr	$I_F=0.5A, I_R=1A, Irr=0.25 \times I_R$	_	23	35	ns
Thermal Resistance	Rth(j-c)	junction to case		_	1.8	°C / W

•Electrical characteristics curves





Notes

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