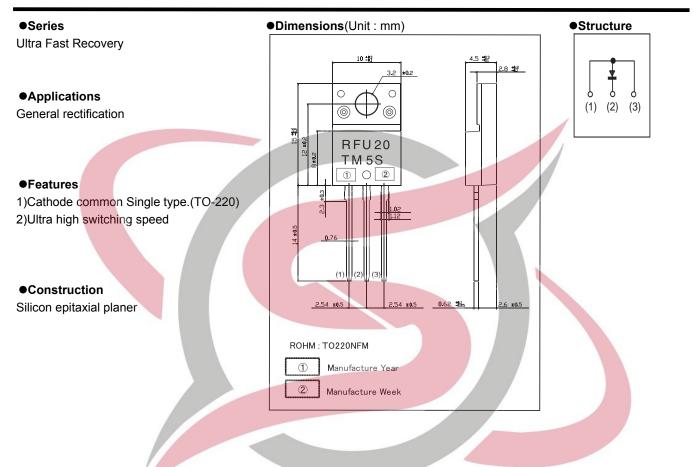


# Super Fast Recovery Diode

### RFU20TM5S



### •Absolute maximum ratings(Tc=25°C)

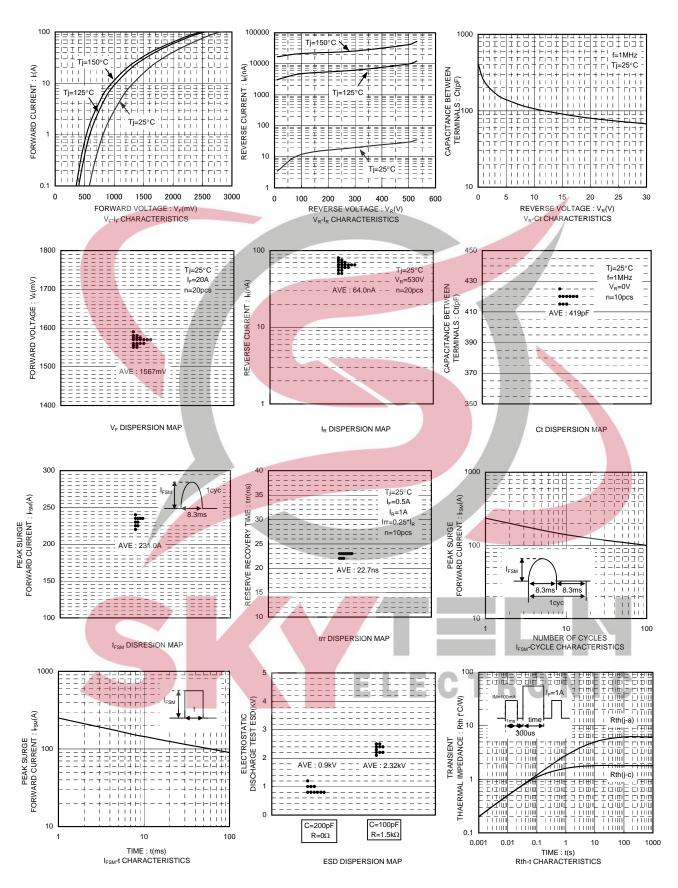
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V <sub>RM</sub>	Duty⊴0.5	530	V
Reverse voltage	V <sub>R</sub>	Direct voltage	530	V
Average rectified forward current	lo	60Hz half sin wave, Resistance load, Tc=95°C	20	A
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C	100	A
Junction temperature	Tj	ELECT	150	°C
Storage temperature	Tstg		-55to+150	°C

### •Electrical characteristics(Tj=25°C)

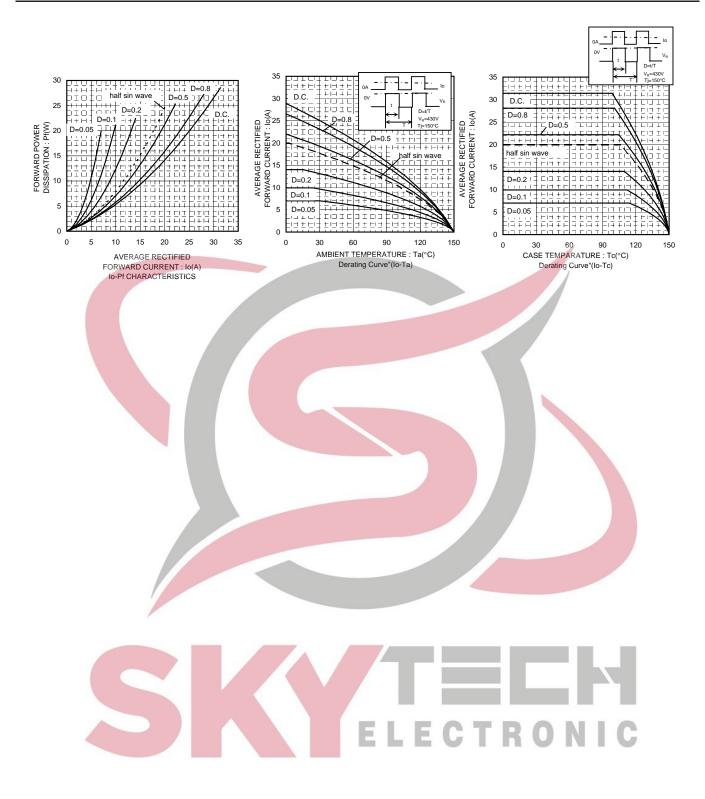
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =20A	-	1.65	2	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =530V	-	0.05	10	μA
Reverse recovery time	trr	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,Irr=0.25×I <sub>R</sub>	-	23	30	ns
Thermal Resistance	Rth(j-c)	junction to case	-	-	1.8	°C/W

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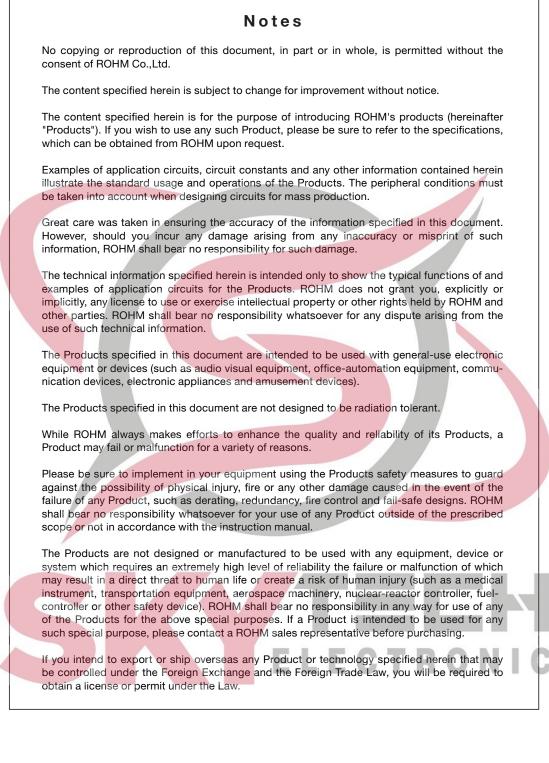
#### Electrical characteristic curves



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