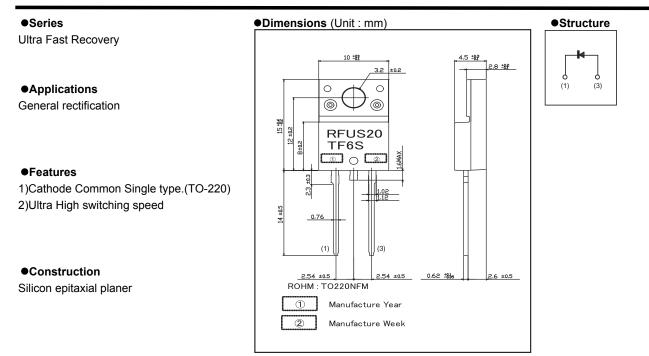


Super Fast Recovery Diode

RFUS20TF6S



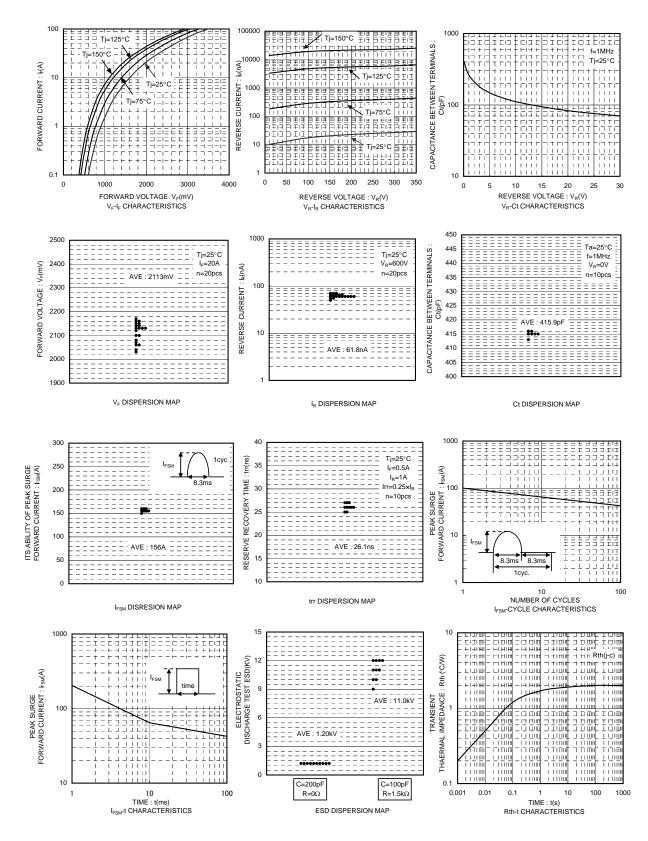
•Absolute maximum ratings (Tc=25°C)

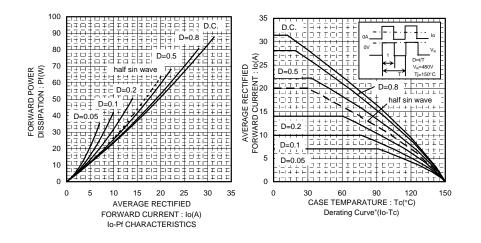
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V _{RM}	Duty⊴0.5	Duty⊴0.5		V
Reverse voltage	V _R	Direct voltage		600	V
Average rectified forward current	lo	60Hz half sin wave, Resistance load,	Tc=30°C	20	А
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive		100	A
		one cycle peak value, Tj=25 $^\circ$			
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	-	2.2	2.8	V
Reverse current	I _R	V _R =600V	-	0.1	10	μA
Reverse recovery time	trr	I _F =0.5A,I _R =1A,Irr=0.25×I _R	-	23	35	ns
Thermal resistance	Rth(j-c)	junction to case	-	-	2	°C/W

Electrical characteristic curves





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