

Fast recovery diode

RF2001T4S

Applications

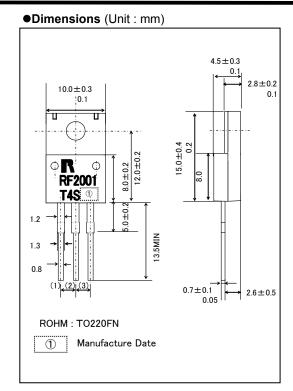
General rectification

● Features

- 1) High reliability.(TO-220)
- 2) Low noise.
- 3) Very fast switching .

● Construction

Silicon epitaxial planar



Structure



● Absolute maximum ratings (Ta=25°C)

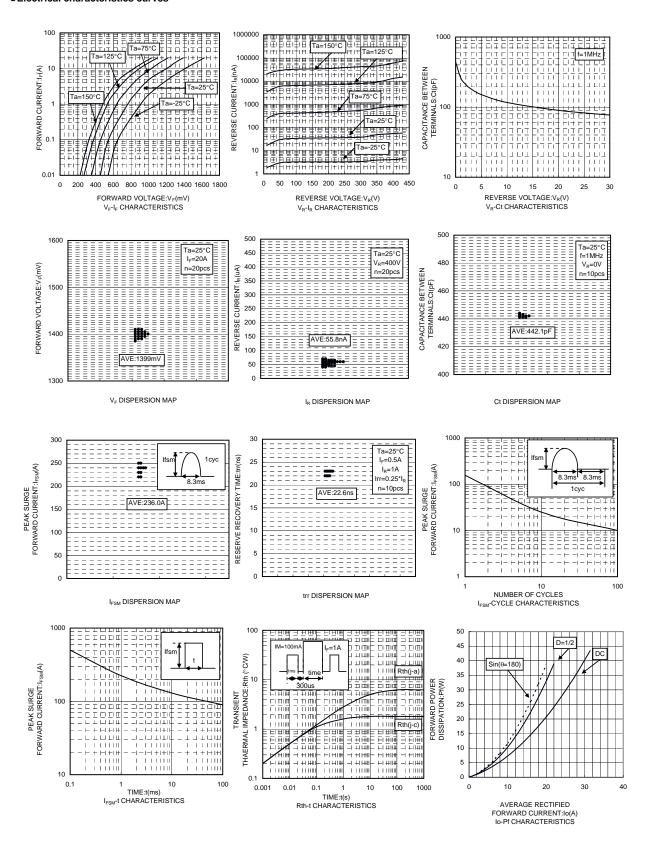
Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	V_{RM}	430	V	
Reverse voltage (DC)	V_R	400	V	
Average rectified forward current (*1)	lo	20	Α	
Forward current surge peak (60Hz/1cyc)(*1)	I _{FSM}	100	Α	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

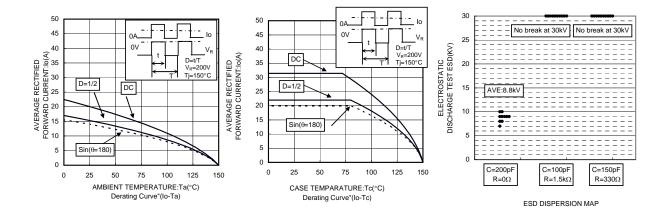
^(*1)Business frequency, Rating of R-load, Tc=94°CMAX.

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	1.6	V	I _F =20A
Reverse current	I _R	-	-	10	μA	V _R =400V
Reverse recovery time	trr	-	-	30	ns	IF=0.5A,IR=1A Irr=0.25*IR

•Electrical characteristics curves





Notes

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