

Fast recovery diodes

RF2001T3D

Applications

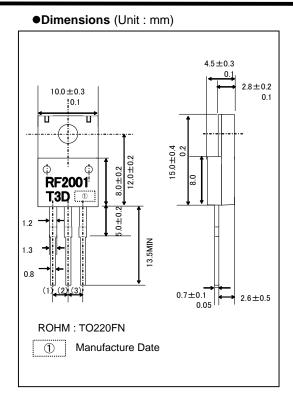
General rectification

● Features

- 1) Cathode common type. (TO-220)
- 2) Ultra Low V_F
- 3) Very fast recovery
- 4) Low switching loss

●Construction

Silicon epitaxial planar



Structure



● Absoslute maximum ratings (Ta=25°C)

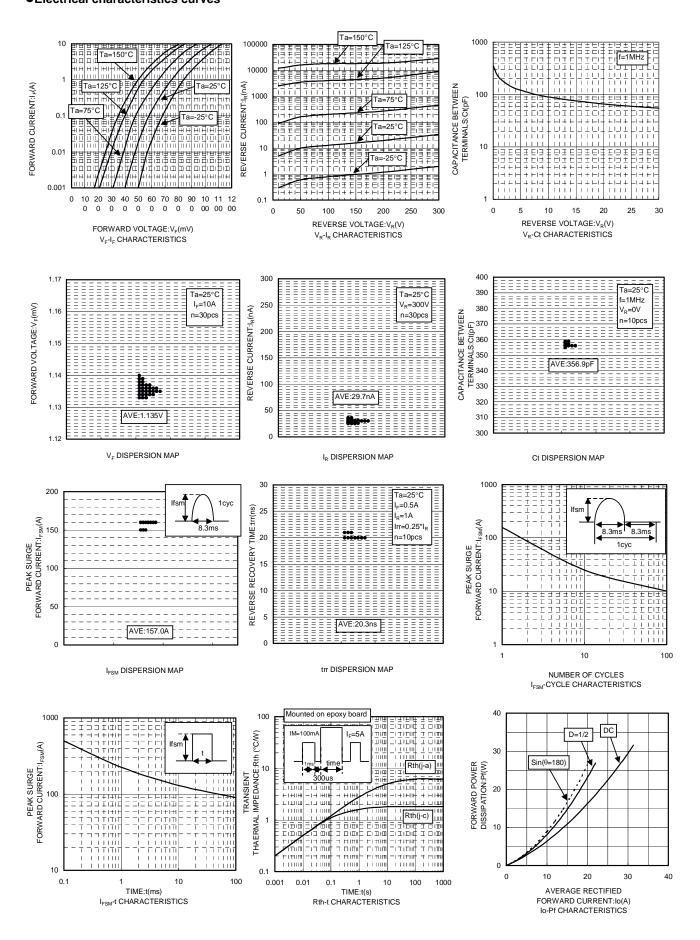
Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	V_{RM}	300	V	
Reverse voltage (DC)	V_R	300	V	
Average rectified forward current (*1)	lo	20	Α	
Forward current surge peak (60Hz/1cyc)	I _{FSM}	100	Α	
Junction temperature	Tj	150	°C	
Storage temoerature	Tstg	−55 to +150	°C	

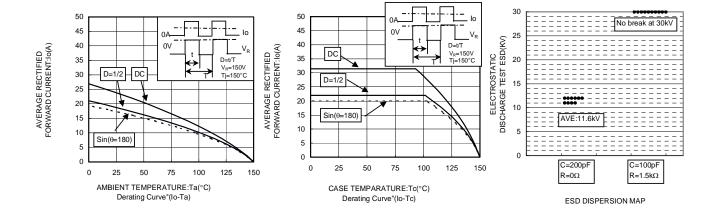
^(*1)Business frequency, Rating of R-load, Tc=113 $^{\circ}$ C 1/2 lo per diode

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	1.3	V	I _F =10A
Reverse current	I _R	-	-	10	μA	V _R =300V
Reverse recovery time	trr	-	-	25	ns	I _F =0.5A,I _R =1A,Irr=0.25*I _R

•Electrical characteristics curves





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