Structure

Fast recovery diode RF2001T3D

Applications

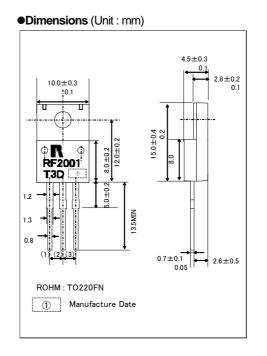
General rectification

Features

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

Construction

Silicon epitaxial planar



•Absolute 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	A			
Forward current surge peak (60Hz · 1cyc)	I _{FSM}	100	A			
Junction temperature	Tj	150	°C			
Storage temoerature	Tstg	-55 to +150	C°			
	44000 44					

(*1)Business frequency, Rating of R-load, Tc=113°C 1/2 lo per diode

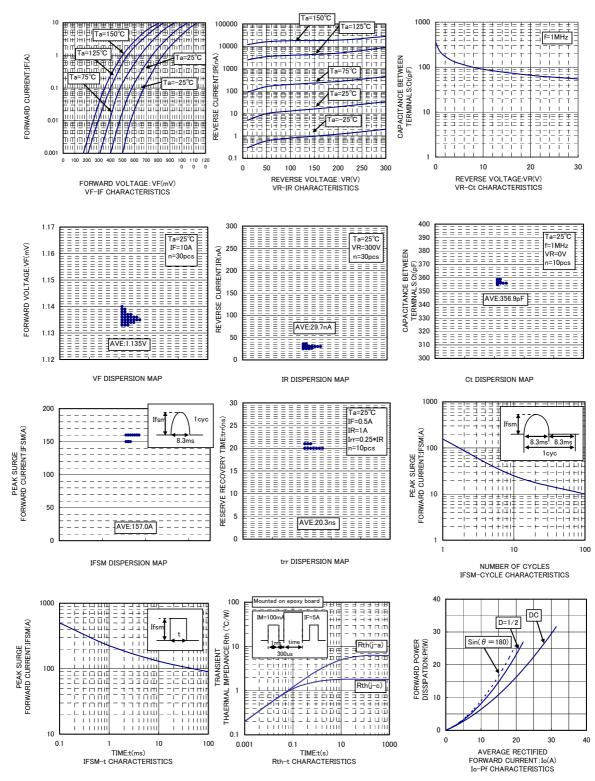
•Electrical characteristic (Ta=25°C)

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



Diodes

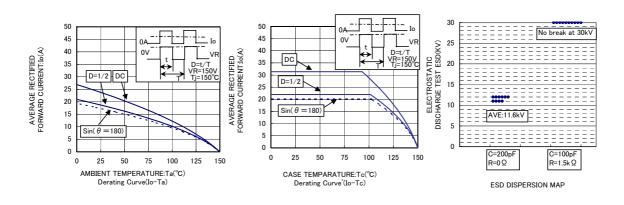




Rev.C 2/3

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Diodes



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Appendix1-Rev2.0

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