Diodes

Fast recovery diodes RF1001T2D

Applications

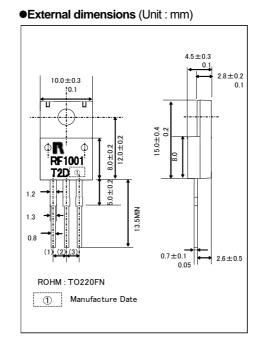
General rectification

● 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)

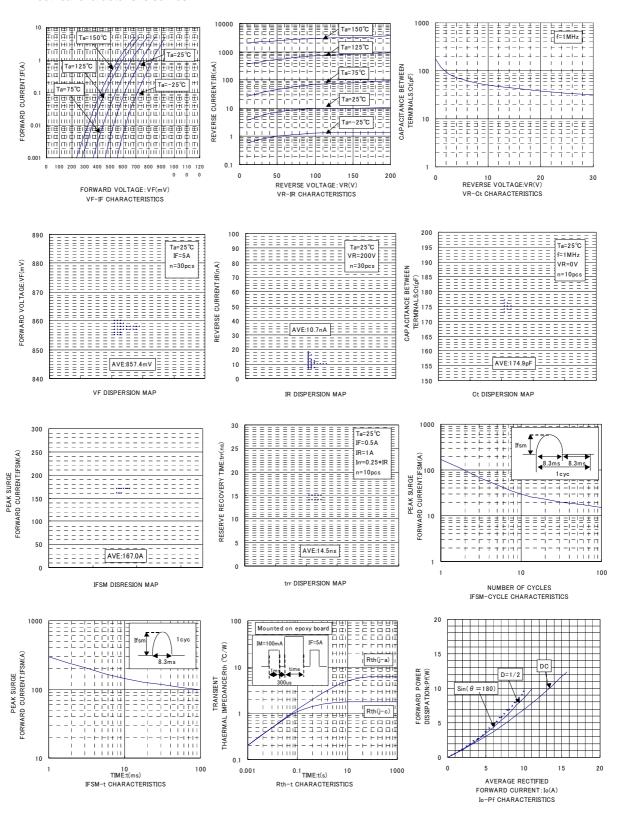
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	200	V
Reverse voltage (DC)	V_R	200	V
Average rectified forward current (*1)	lo	10	Α
Forward current surge peak (60Hz-1cyc)	I _{FSM}	80	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

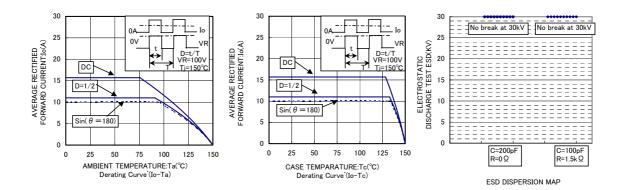
^(*1) Per chip : lo/2

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	0.87	0.93	V	I _F =5A
Reverse current	I _R	-	0.01	10	μA	V _R =200V
Reverse recovery time	trr	-	15	30	ns	I _F =0.5A,I _R =1A,Irr=0.25*I _R
Thermal impedance	θјс	-	-	2.5	°C/W	JUNCTION TO CASE

•Electrical characteristic curves





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