

Fast recovery diode

RF2001T3D

●Applications

General rectification

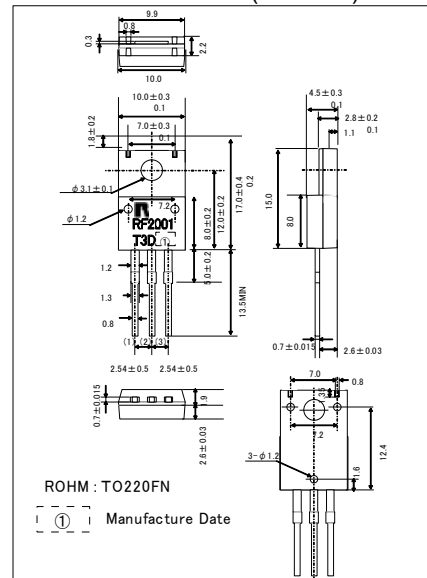
●Features

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

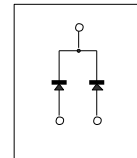
●Construction

Silicon epitaxial planar

●External dimensions (Unit : mm)



●Structure



●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)	I_o	20	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	100	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

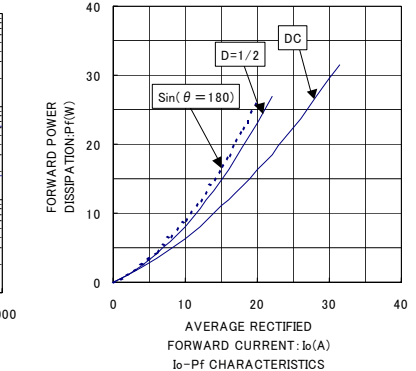
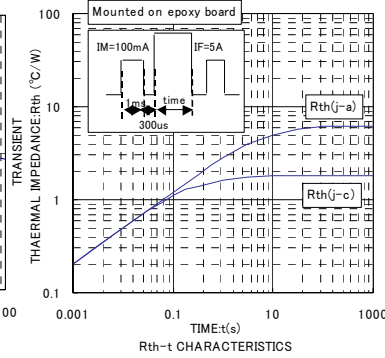
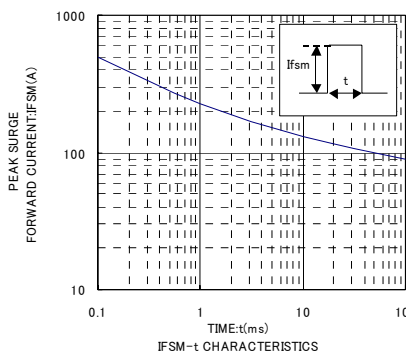
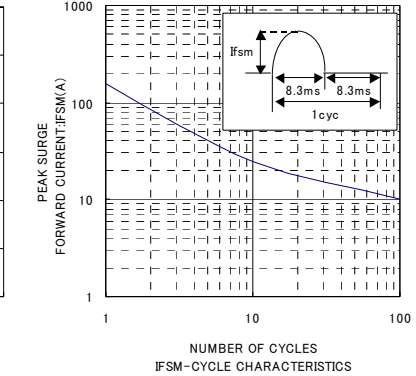
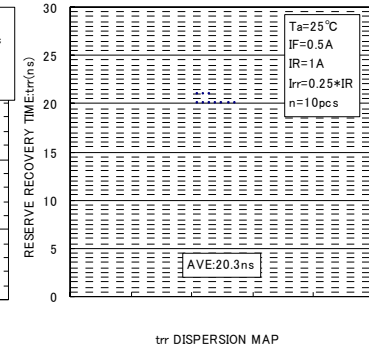
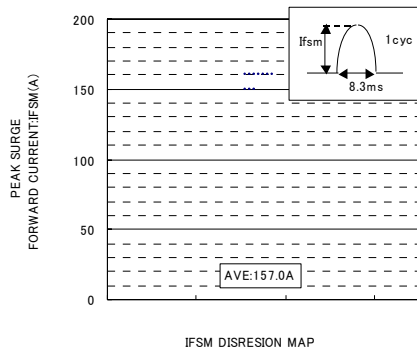
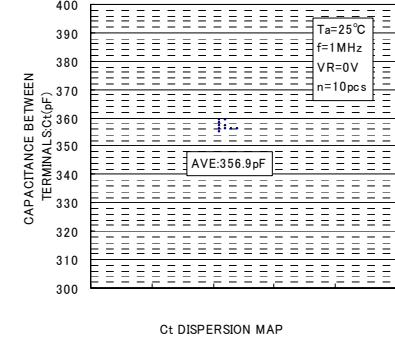
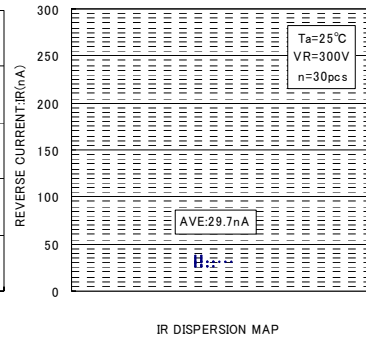
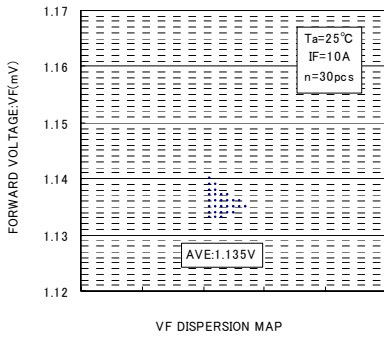
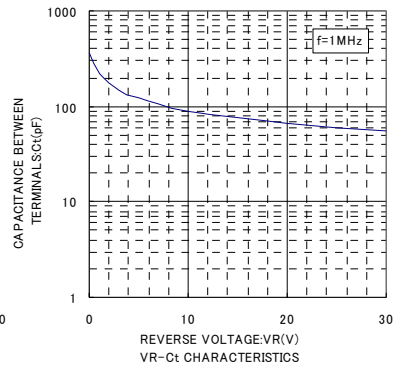
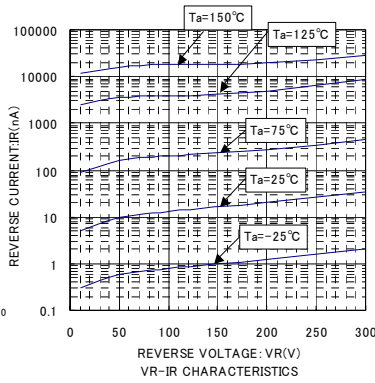
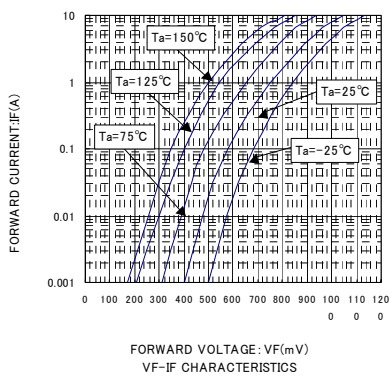
(*1) Per chip : $I_o/2$

●Electrical characteristic (Ta=25°C)

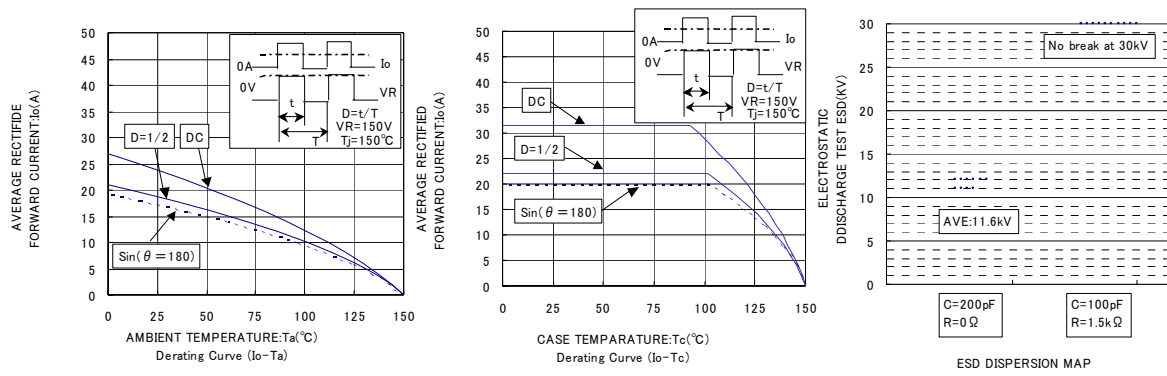
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.3	V	$I_F=10A$
Reverse current	I_R	-	-	10	μA	$V_R=200V$
Reverse recovery time	t_{rr}	-	-	25	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \cdot I_R$

Diodes

●Electrical characteristic curves



Diodes



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