

Fast recovery diode

RF2001T3D

● Applications

General rectification

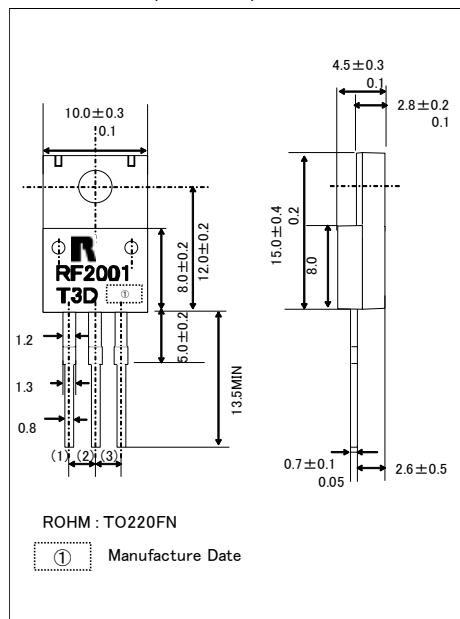
● Features

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

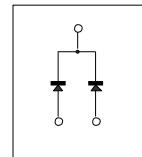
● Construction

Silicon epitaxial planar

● Dimensions (Unit : mm)



● Structure



● Absolute maximum ratings ($T_a=25^\circ C$)

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	$^\circ C$
Storage temoerature	T_{stg}	-55 to +150	$^\circ C$

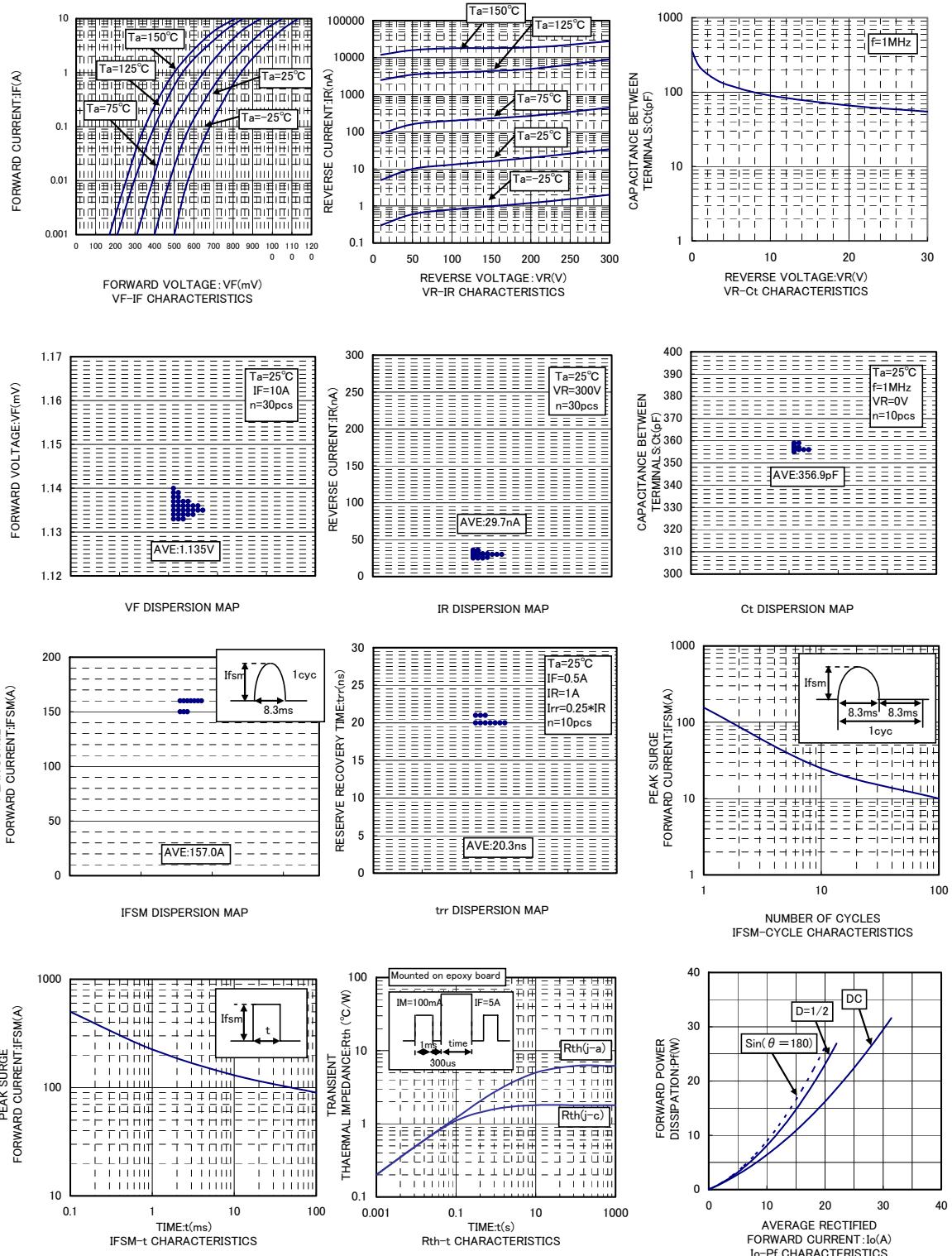
(*1)Business frequency, Rating of R-load, $T_c=113^\circ C$ 1/2 I_o per diode

● Electrical characteristic ($T_a=25^\circ C$)

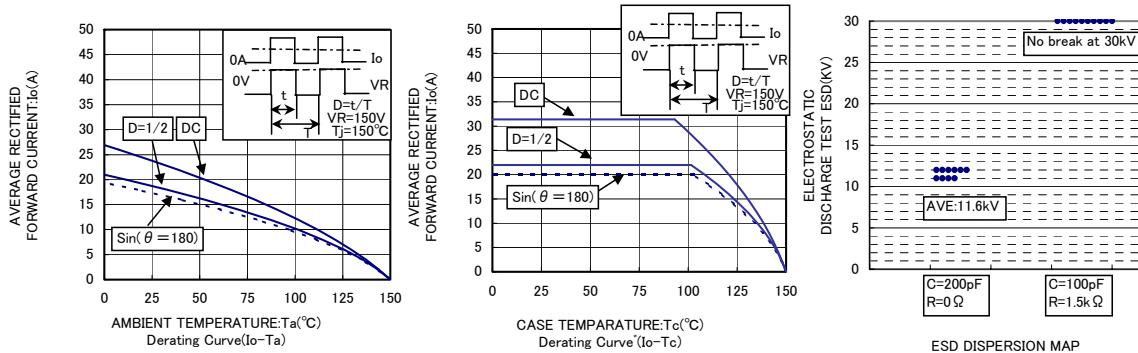
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.3	V	$I_F=10A$
Reverse current	I_R	-	-	10	μA	$V_R=300V$
Reverse recovery time	trr	-	-	25	ns	$I_F=0.5A, I_R=1A, Irr=0.25*I_R$

Diodes

● Electrical characteristic curves



Diodes



Appendix

Notes

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