

Fast recovery diode

RF2001T2D

● **Applications**

General rectification

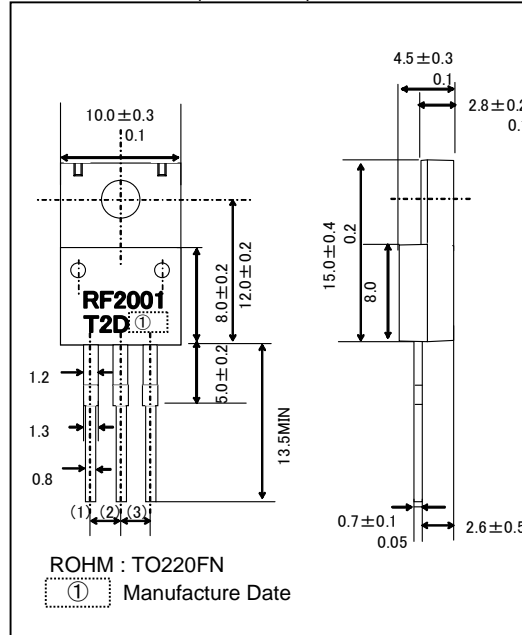
● **Features**

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

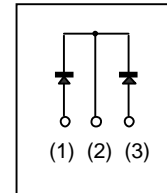
● **Construction**

Silicon epitaxial planar

● **Dimensions** (Unit : mm)



● **Structure**



● **Absolute maximum ratings** ($T_a=25^\circ\text{C}$)

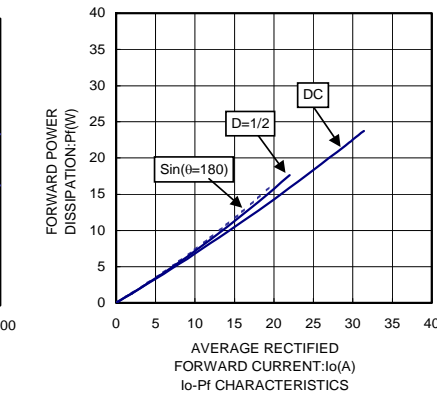
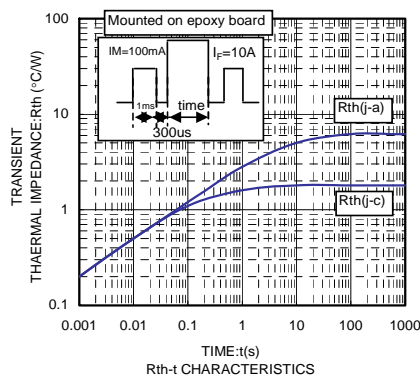
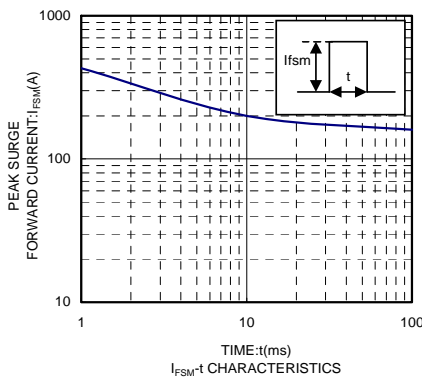
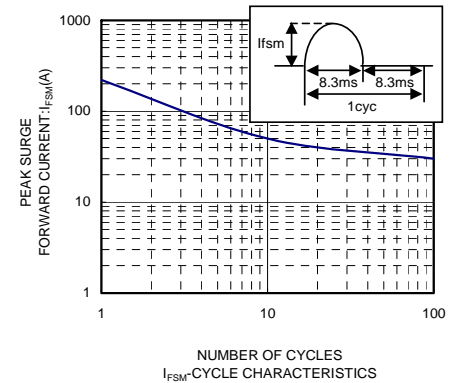
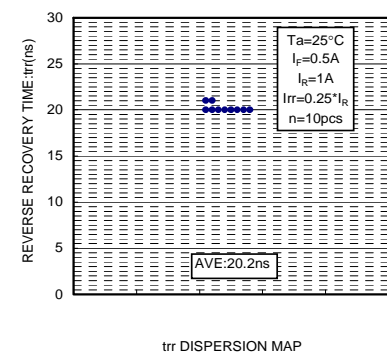
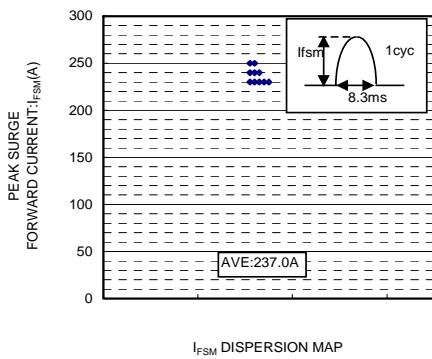
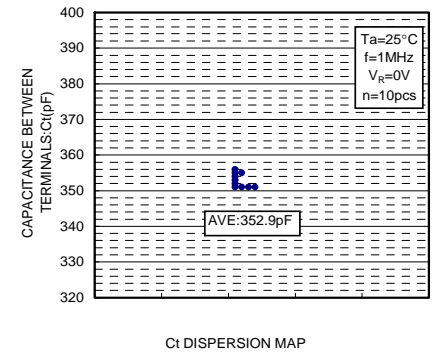
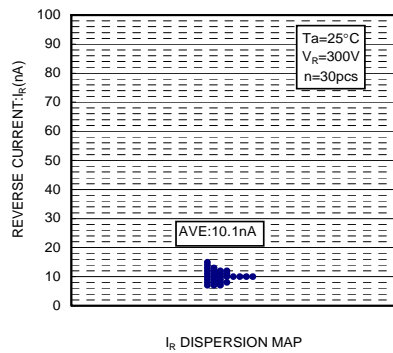
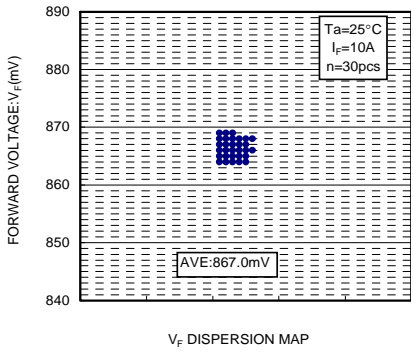
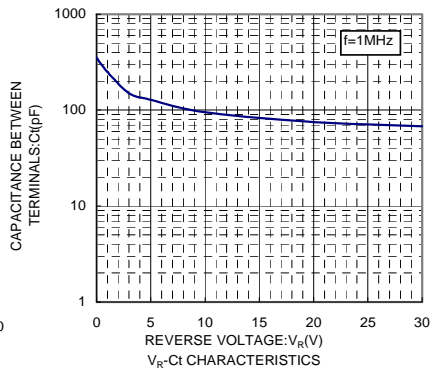
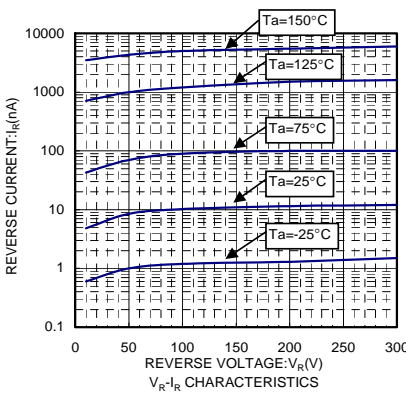
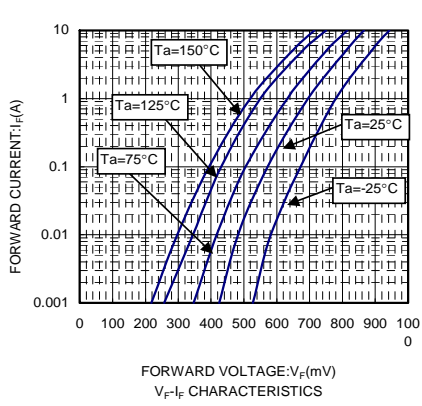
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	200	V
Reverse voltage (DC)	V_R	200	V
Average rectified forward current (*1)	I_o	20	A
Forward current surge peak (60Hz/1cyc)	I_{FSM}	100	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

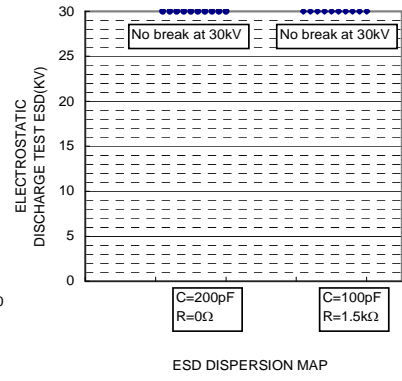
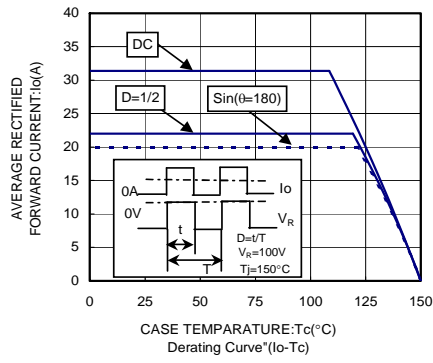
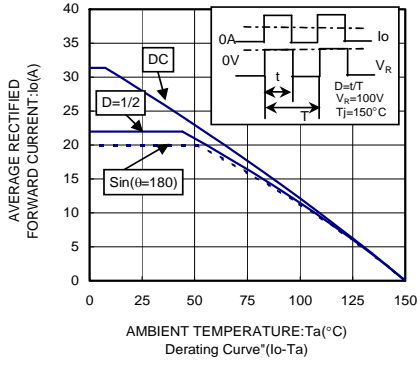
(*1)Business frequencies, Rating of R-load, $T_c=113^\circ\text{C}$. 1/2 I_o per diode

● **Electrical characteristic** ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.87	0.93	V	$I_F=10\text{A}$
Reverse current	I_R	-	0.01	10	μA	$V_R=200\text{V}$
Reverse recovery time	t_{rr}	-	20	30	ns	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25 \cdot I_R$

●Electrical characteristics curves





ESD DISPERSION MAP

Notes

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