

# Fast recovery diode

## RF2001T2D

### ● Applications

General rectification

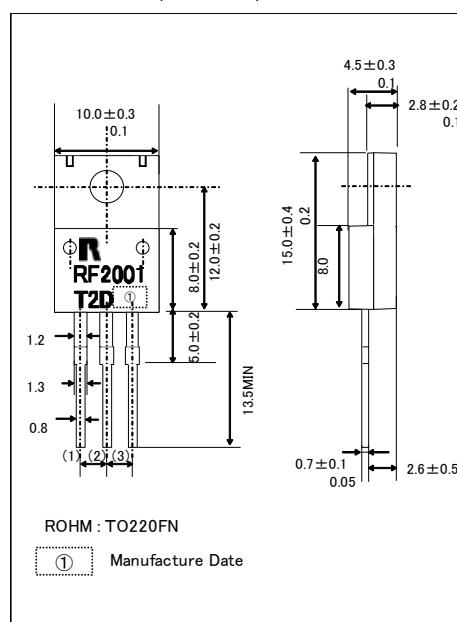
### ● Features

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

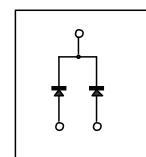
### ● Construction

Silicon epitaxial planar

### ● Dimensions (Unit : mm)



### ● Structure



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

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

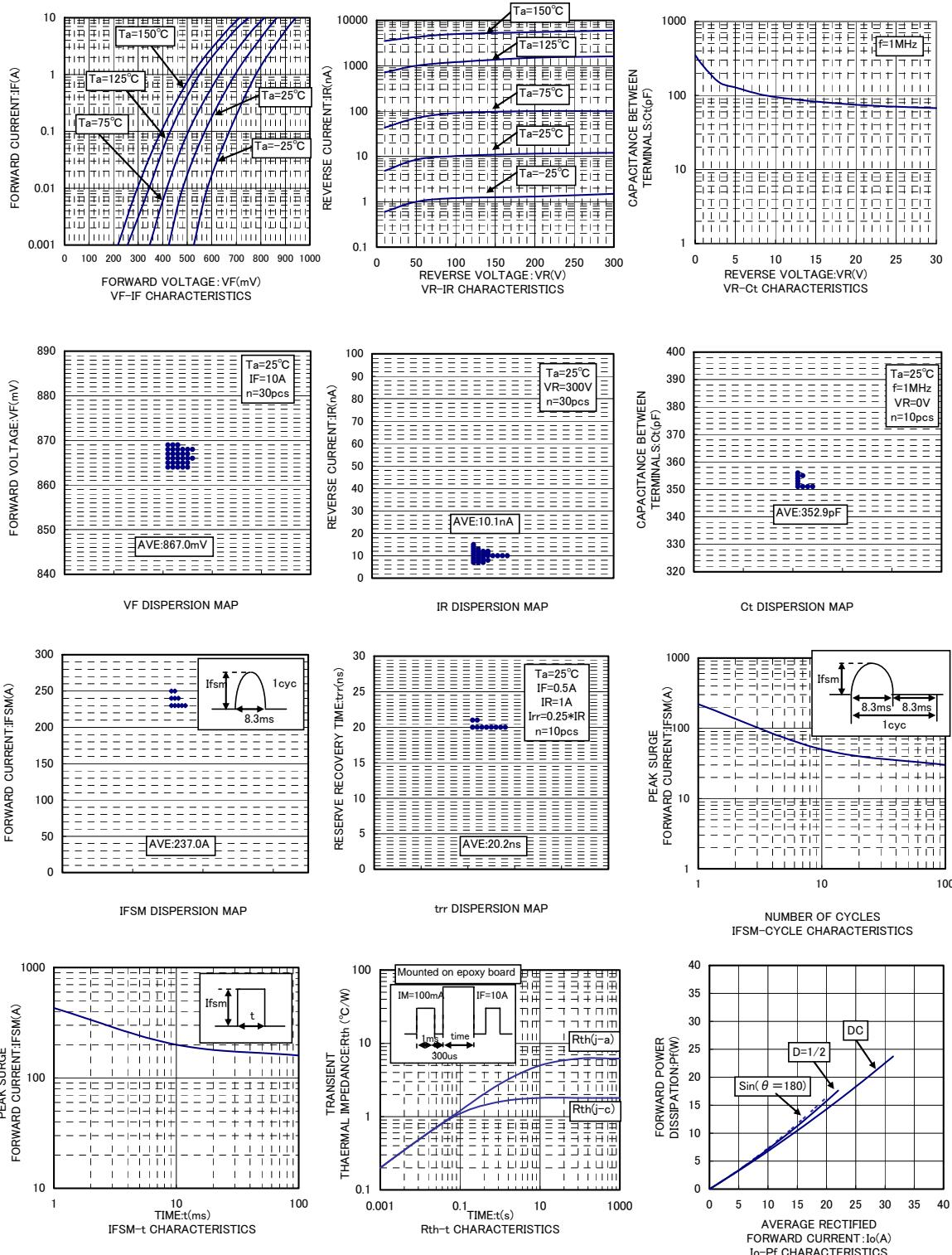
(\*1)Business frequencies, Rating of R-load,  $T_c=113^\circ C$ .  $1/2 I_O$  per diode

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

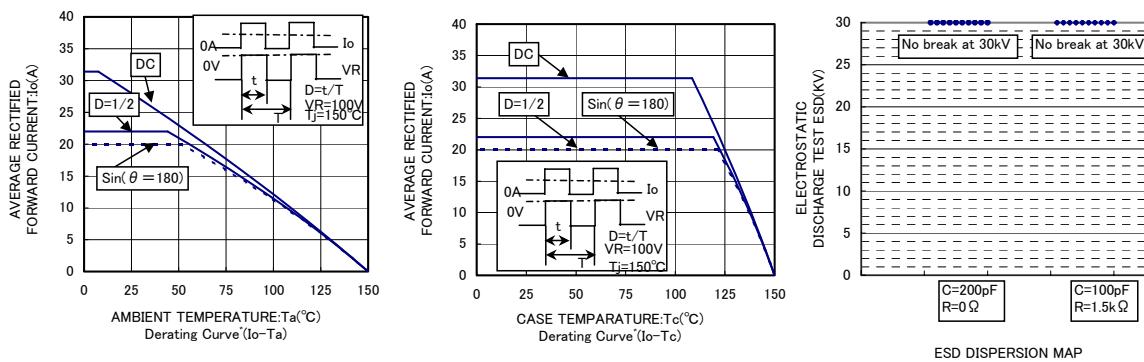
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.87	0.93	V	$I_F=10A$
Reverse current	$I_R$	-	0.01	10	$\mu A$	$V_R=200V$
Reverse recovery time	$t_{rr}$	-	20	30	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25*I_R$

## Diodes

## ● Electrical characteristic curves



## Diodes



## Appendix

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