# Fast recovery diode RF2001T2D

## Applications

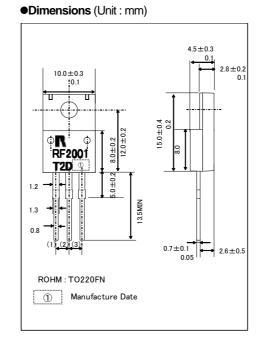
General rectification

## ● Features

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

## Construction

Silicon epitaxial planar



# ●Structure



# ● Absolute maximum ratings (Ta=25°C)

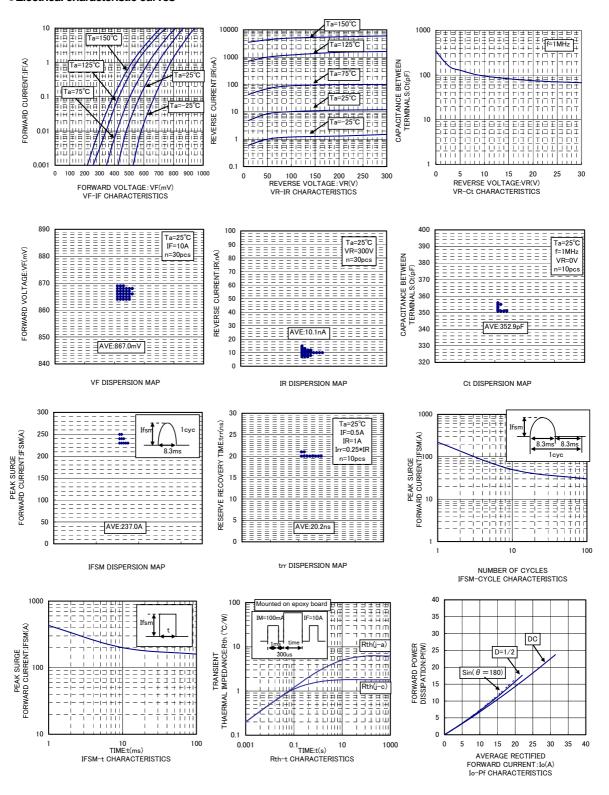
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	200	V
Reverse voltage (DC)	$V_R$	200	V
Average rectified forward current (*1)	lo	20	Α
Forward current surge peak (60Hz·1cyc)	I <sub>FSM</sub>	100	Α
Junction temperature	Tj	150	°C
Storage temoerature	Tstg	-55 to +150	°C

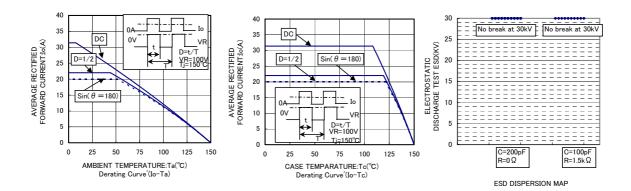
<sup>(\*1)</sup>Business frequencies, Rating of R-load, Tc=113°C. 1/2 lo per diode

## ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	0.87	0.93	V	I <sub>F</sub> =10A
Reverse current	I <sub>R</sub>	-	0.01	10	μA	V <sub>R</sub> =200V
Reverse recovery time	trr	-	20	30	ns	IF=0.5A,IR=1A,Irr=0.25*IR

#### •Electrical characteristic curves





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ROHM CO., LTD. 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan

PAX:+81-75-315-0172

TEL:+81-75-311-2121

