

# RF2001T2D

## General rectification

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

## Silicon epitaxial planar

The drawing shows the mechanical specifications for the TO220FN package. The top view (left) indicates a width of  $10.0 \pm 0.3$  mm and a pin pitch of 10.1 mm. The side view (right) shows a total height of  $15.0 \pm 0.4$  mm, with a mounting tab height of 8.0 mm and a base thickness of 0.2 mm. Pin dimensions include a diameter of  $0.7 \pm 0.1$  mm and a length of  $2.6 \pm 0.5$  mm. The drawing also includes a reference to the ROHM TO220FN package and a note about the manufacturing date.

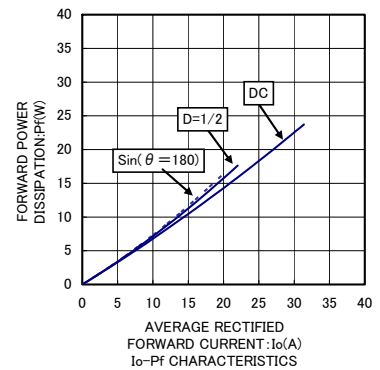
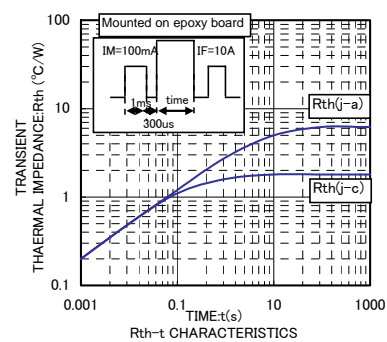
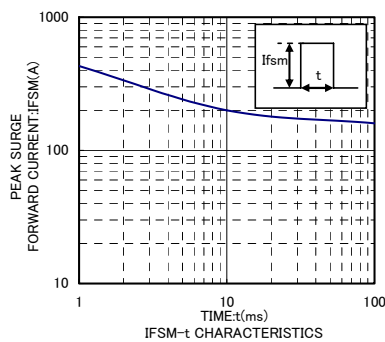
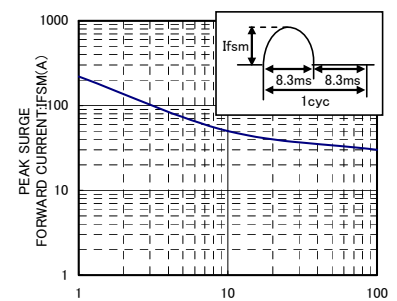
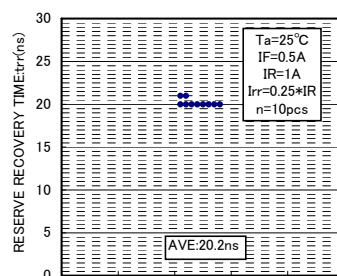
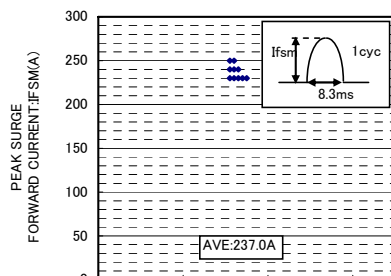
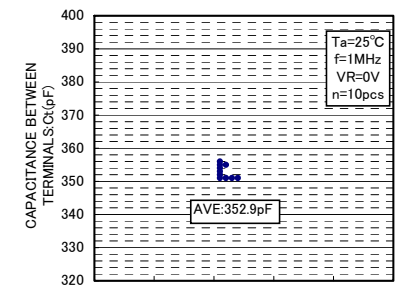
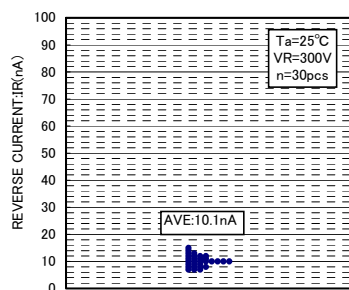
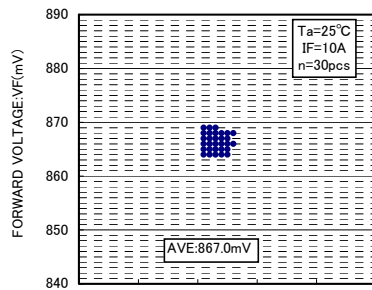
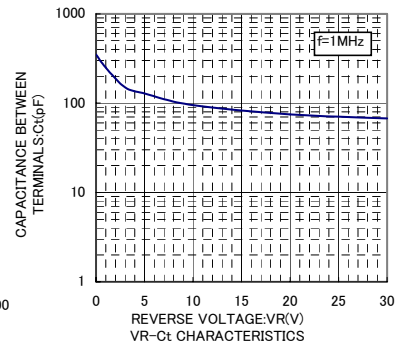
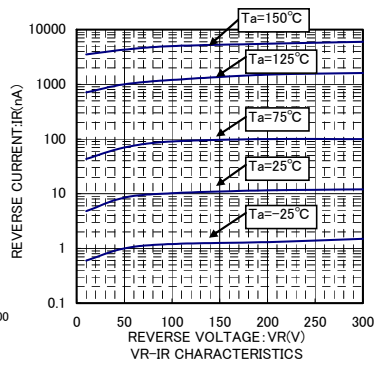
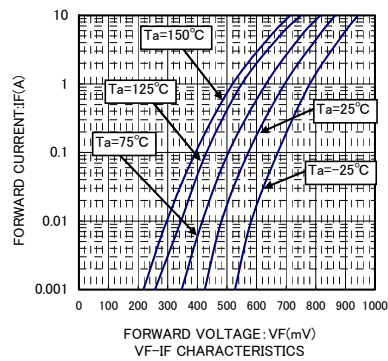
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	200	V
Reverse voltage (DC)	$V_R$	200	V
Average rectified forward current (*1)	$I_O$	20	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	100	A
Junction temperature	$T_J$	150	°C
Storage temoerature	$T_{stg}$	-55 to +150	°C

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

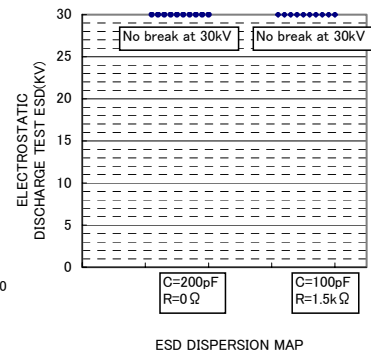
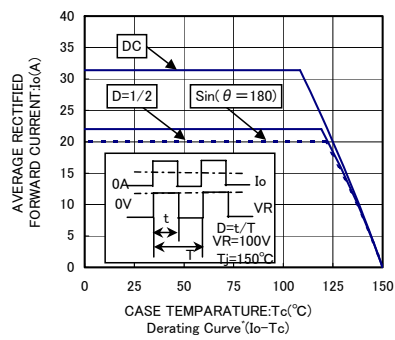
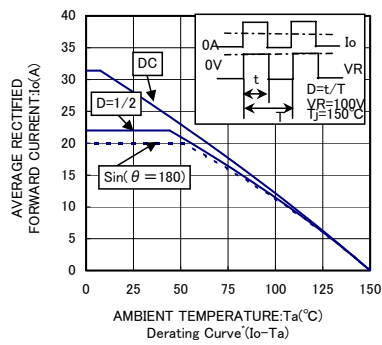
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.87	0.93	V	$I_F=10A$
Reverse current	$I_R$	-	0.01	10	$\mu A$	$V_R=200V$
Reverse recovery time	$t_{rr}$	-	20	30	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \cdot I_R$

## Diodes

## ●Electrical characteristic curves



## Diodes



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