

# Fast recovery diode

## RF601T2D

### ●Applications

General rectification

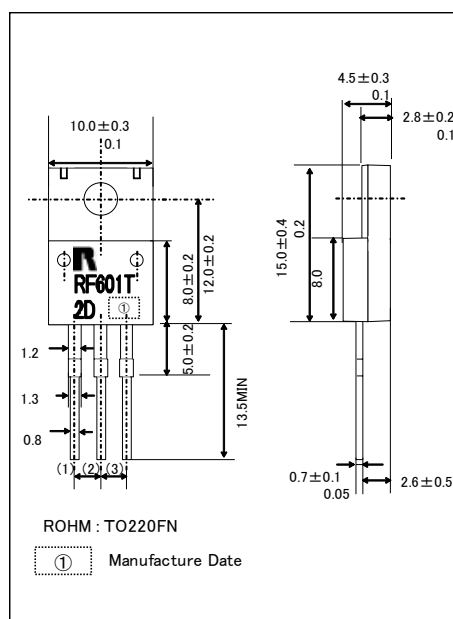
### ●Features

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

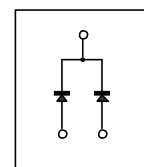
### ●Construction

Silicon epitaxial planar

### ●Dimensions (Unit : mm)



### ●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)	$I_o$	6	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	60	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

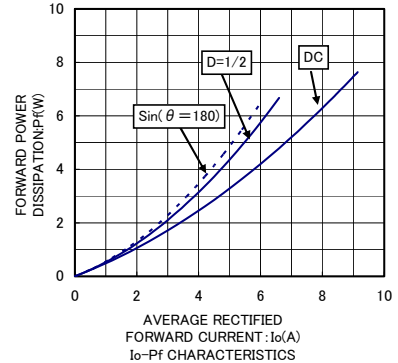
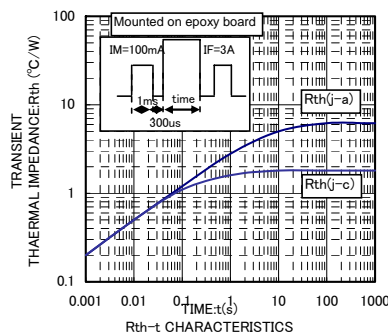
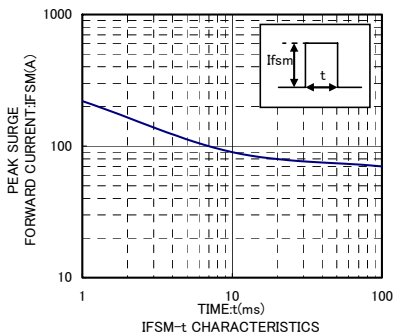
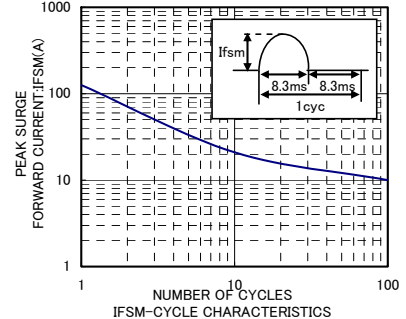
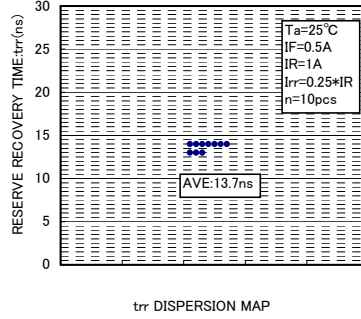
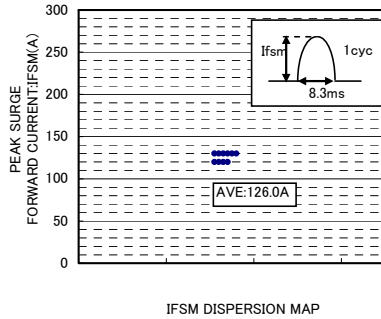
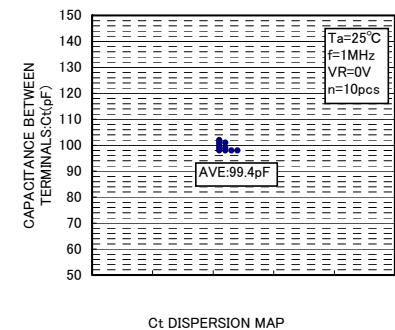
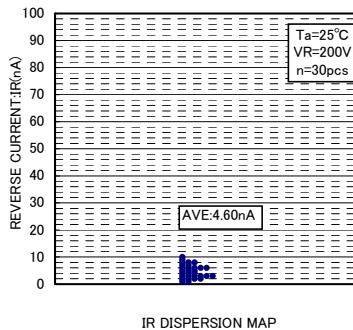
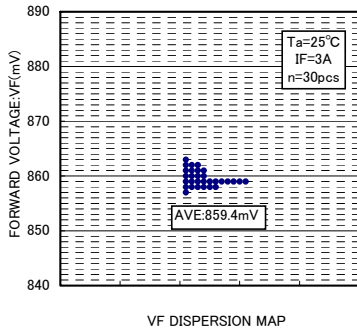
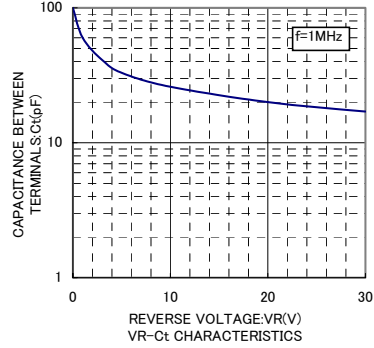
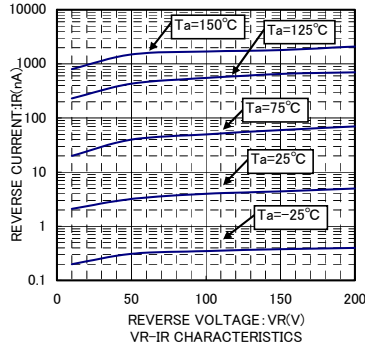
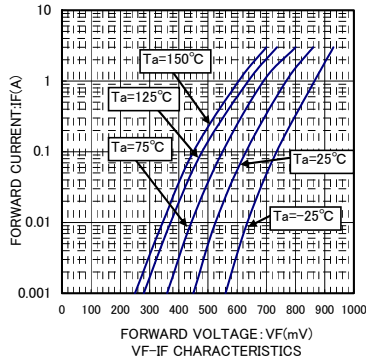
(\*1)Business frequency, Rating of R-load,  $T_c=132^{\circ}\text{C}_{MAX}$ . 1/2  $I_o$  per diode

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

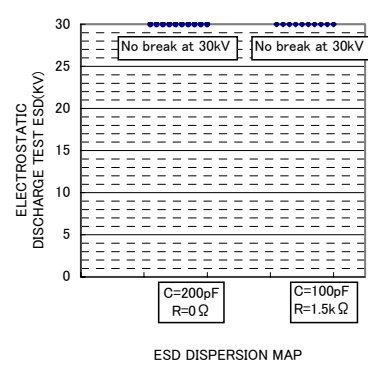
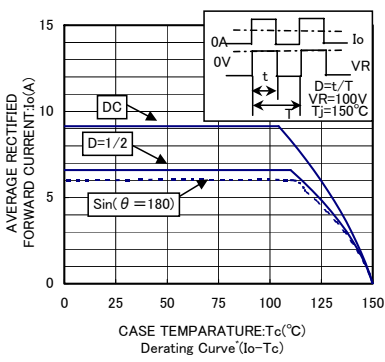
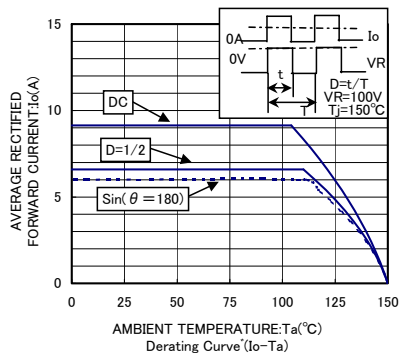
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.87	0.93	V	$I_F=3\text{A}$
Reverse current	$I_R$	-	0.01	10	$\mu\text{A}$	$V_R=200\text{V}$
Reverse recovery time	$t_{rr}$	-	18	25	ns	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25 \cdot I_R$

Diodes

●Electrical characteristic curves



Diodes



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