

# Fast recovery diodes

## RF1601T2D

### ●Applications

General rectification

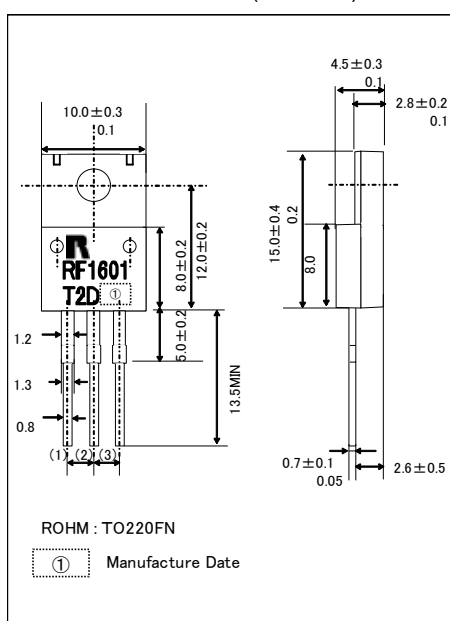
### ●Features

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

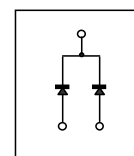
### ●Construction

Silicon epitaxial planar

### ●External 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)	$I_o$	16	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	80	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

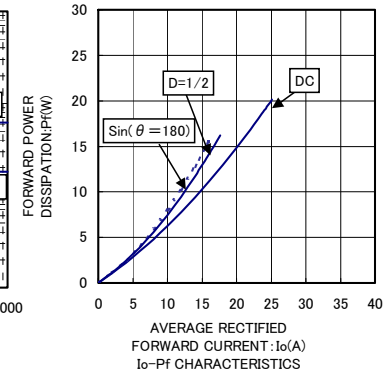
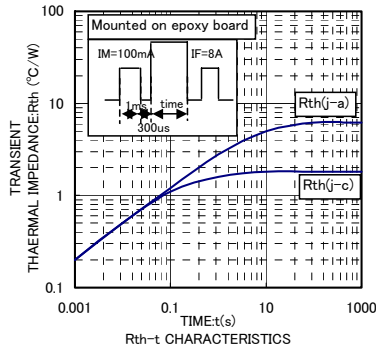
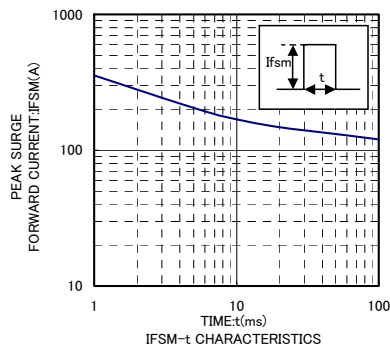
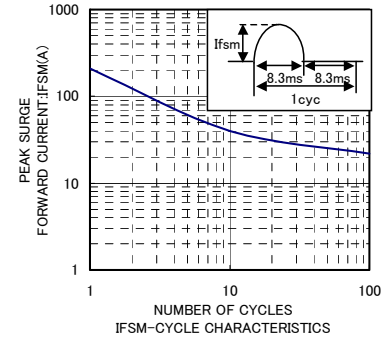
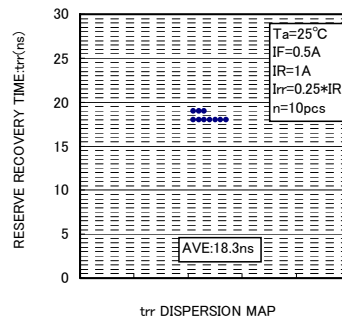
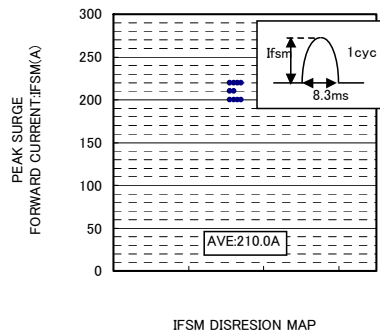
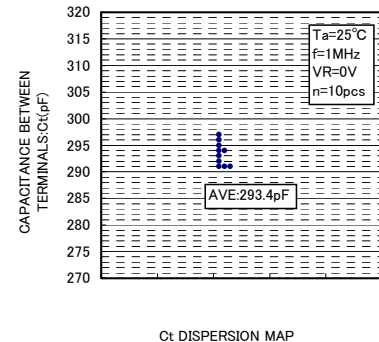
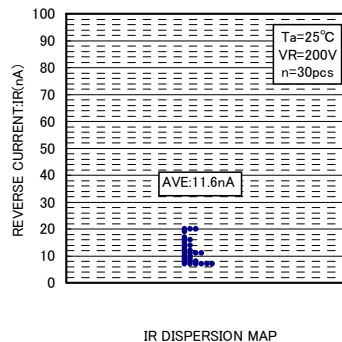
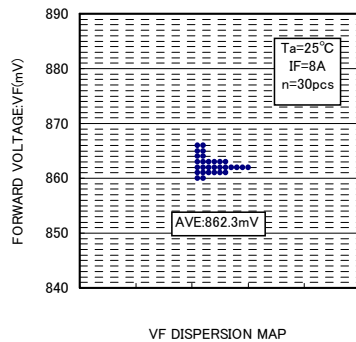
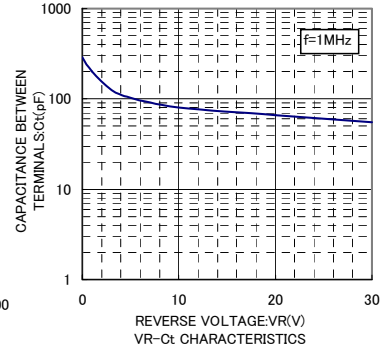
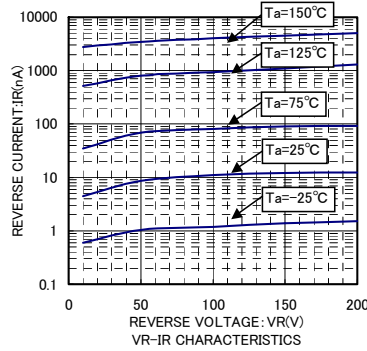
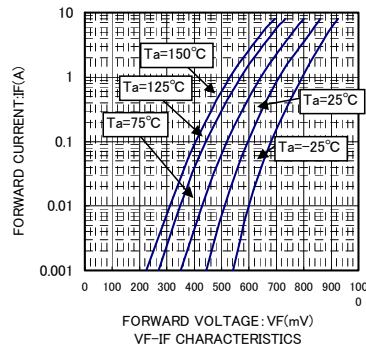
(\*1) Per chip :  $I_o/2$

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

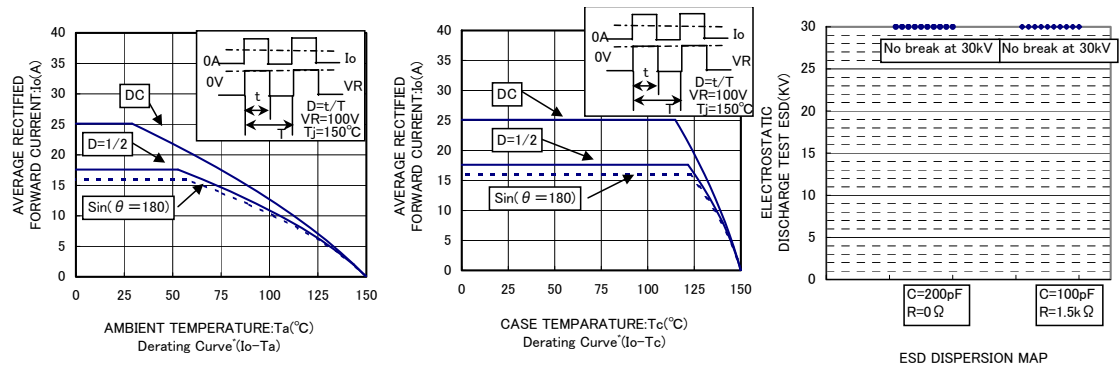
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.93	V	$I_F=8A$
Reverse current	$I_R$	-	-	10	μA	$V_R=200V$
Reverse recovery time	$t_{rr}$	-	-	30	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25*I_R$

# Diodes

## ●Electrical characteristic curves



## Diodes



ESD DISPERSION MAP

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