

# Fast recovery diode

## RF2001T4S

### ●Applications

General rectification

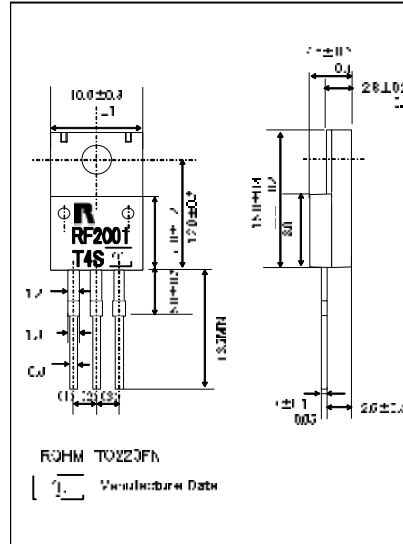
### ●Features

- 1) High reliability.( TO-220)
- 2) Low noise.
- 3) Very fast switching .

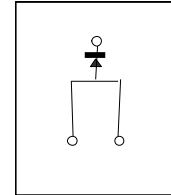
### ●Construction

Silicon epitaxial planar

### ●External dimensions (Unit : mm)



### ●Structure



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	430	V
Reverse voltage (DC)	$V_R$	400	V
Average rectified forward current (*1)	$I_o$	20	A
Forward current surge peak (60Hz*1cyc) (*1)	$I_{FSM}$	100	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

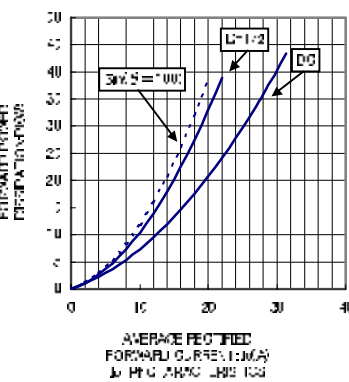
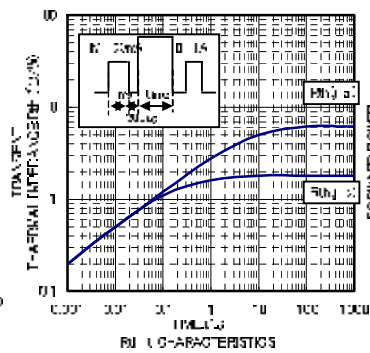
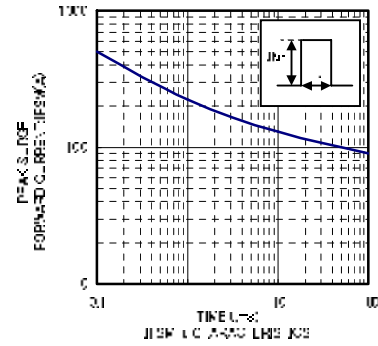
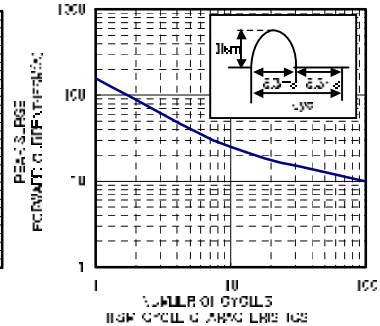
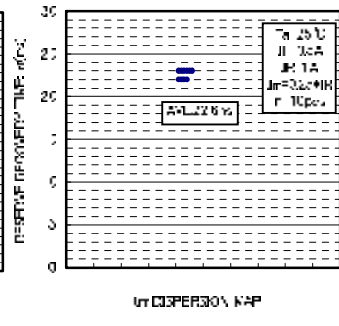
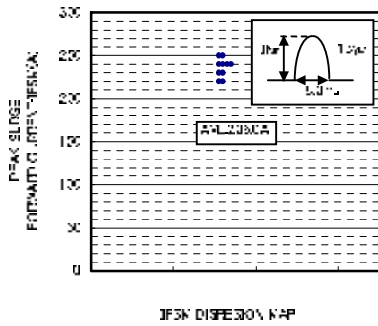
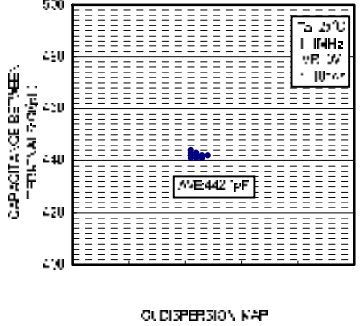
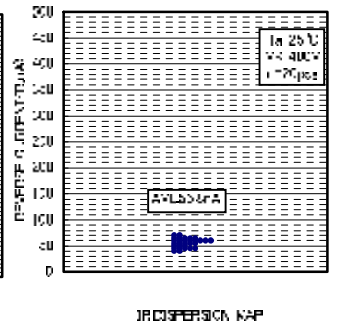
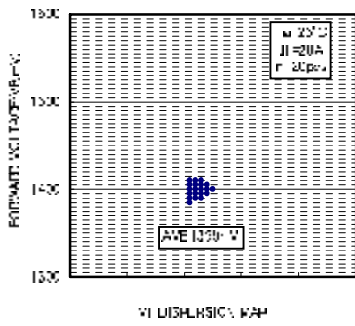
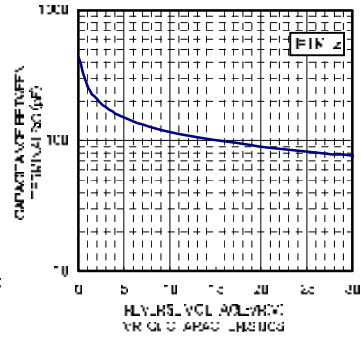
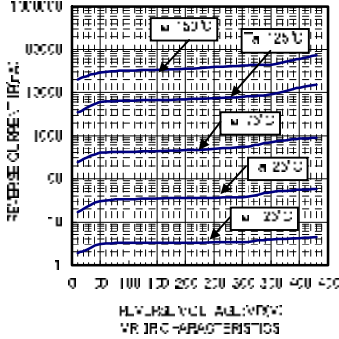
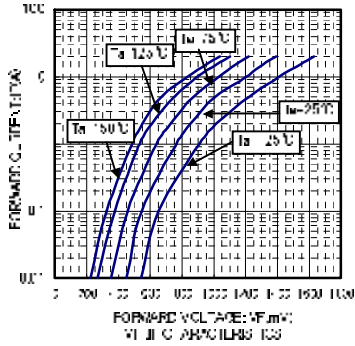
(\*1) $T_c=98^{\circ}\text{C}_{max}$

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

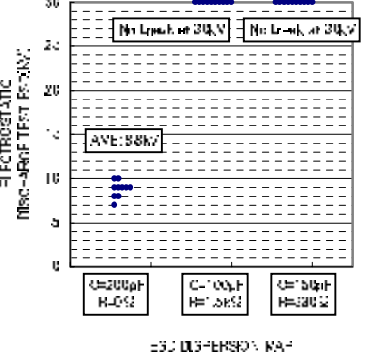
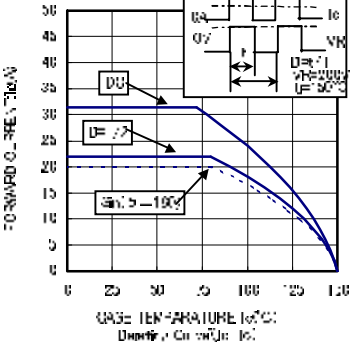
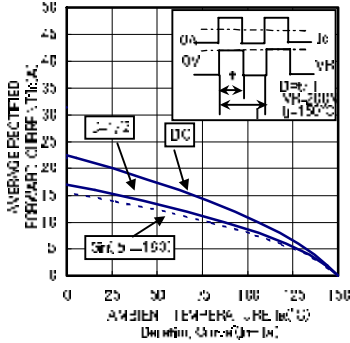
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.6	V	$I_F=20\text{A}$
Reverse current	$I_R$	-	-	10	$\mu\text{A}$	$V_R=400\text{V}$
Reverse recovery time	$t_{rr}$	-	-	30	ns	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25^*I_R$

Diodes

●Electrical characteristic curves



Diodes



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