# Fast recovery diodes RF1601T2D

# Applications

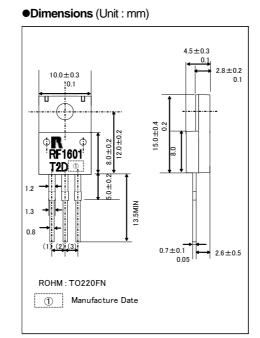
General rectification

# ● Features

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

## Construction

Silicon epitaxial planar







● Absoslute maximum ratings (Ta=25°C)

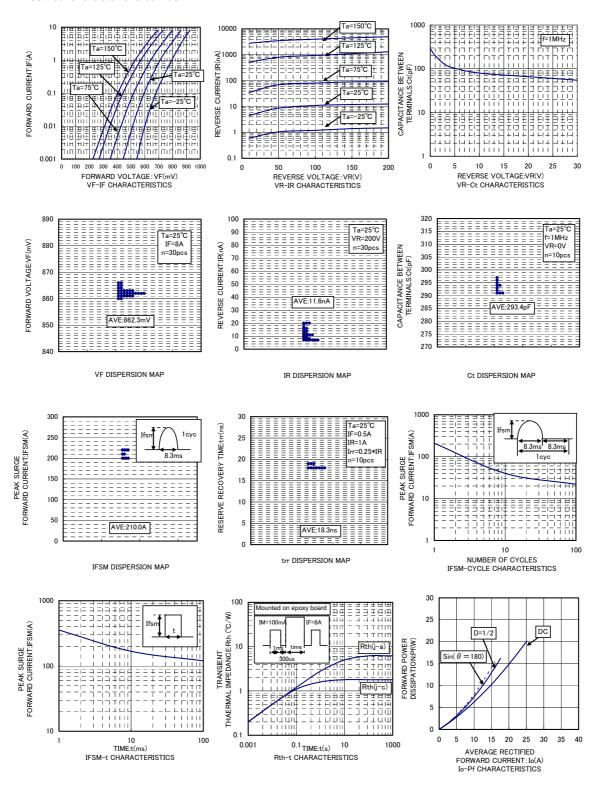
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	200	V
Reverse voltage (DC)	$V_R$	200	V
Average rectified forward current (*1)	lo	16	Α
Forward current surge peak (60Hz-1cyc)	I <sub>FSM</sub>	80	Α
Junction temperature	Tj	150	°C
Storage temoerature	Tstg	-55 to +150	°C

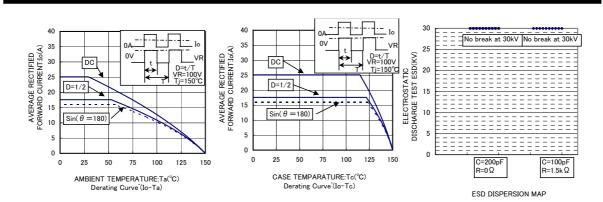
<sup>(\*1)</sup>Business frequency, Rating of R-load, Tc=120°C. 1/2 lo per diode

# ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	0.93	V	I <sub>F</sub> =8A
Reverse current	I <sub>R</sub>	-	-	10	μΑ	V <sub>R</sub> =200V
Reverse recovery time	trr	-	-	30	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,Irr=0.25*I <sub>R</sub>

### •Electrical characteristic curves





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