

Fast recovery diodes

RF1601T2D

Applications

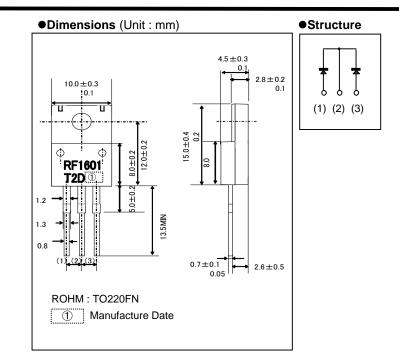
General rectification

● Features

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

●Construction

Silicon epitaxial planar



● Absoslute maximum ratings (Ta=25°C)

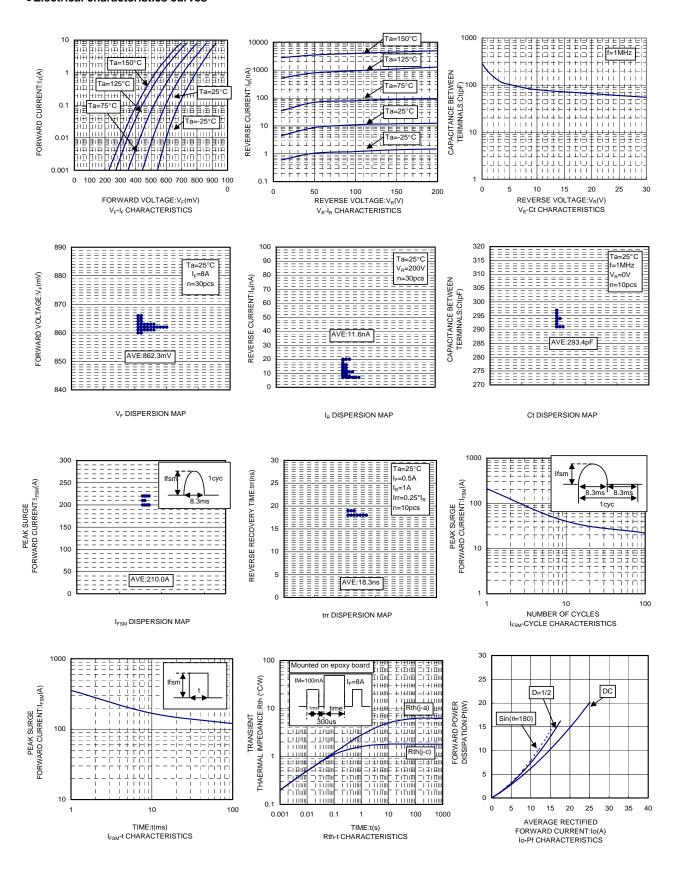
D		1.2 - 20	
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	200	V
Reverse voltage (DC)	V_R	200	V
Average rectified forward current (*1)	lo	16	Α
Forward current surge peak (60Hz/1cyc)	I_{FSM}	80	А
Junction temperature	Tj	150	°C
Storage temoerature	Tstg	−55 to +150	°C

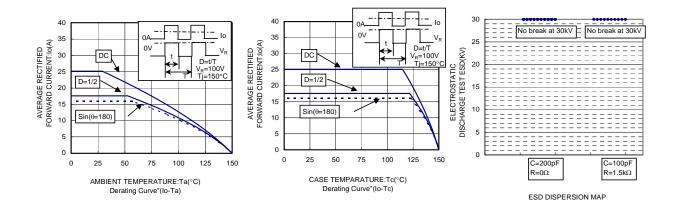
^(*1)Business frequency, Rating of R-load, Tc=120°C. 1/2 lo per diode

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	0.93	V	I _F =8A
Reverse current	I_R	-	-	10	μA	V _R =200V
Reverse recovery time	trr	-	-	30	ns	I _F =0.5A,I _R =1A,Irr=0.25*I _R

•Electrical characteristics curves





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