

Datasheet

Applications

General rectification

Features

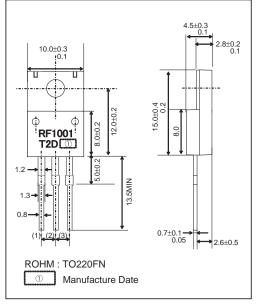
 Cathode common type. (TO-220)
Ultra Low VF
Very fast recovery

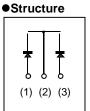
4) Low switching loss

Construction

Silicon epitaxial planar

•Dimensions (Unit : mm)





•Absolute maximum ratings (Ta=25°C)

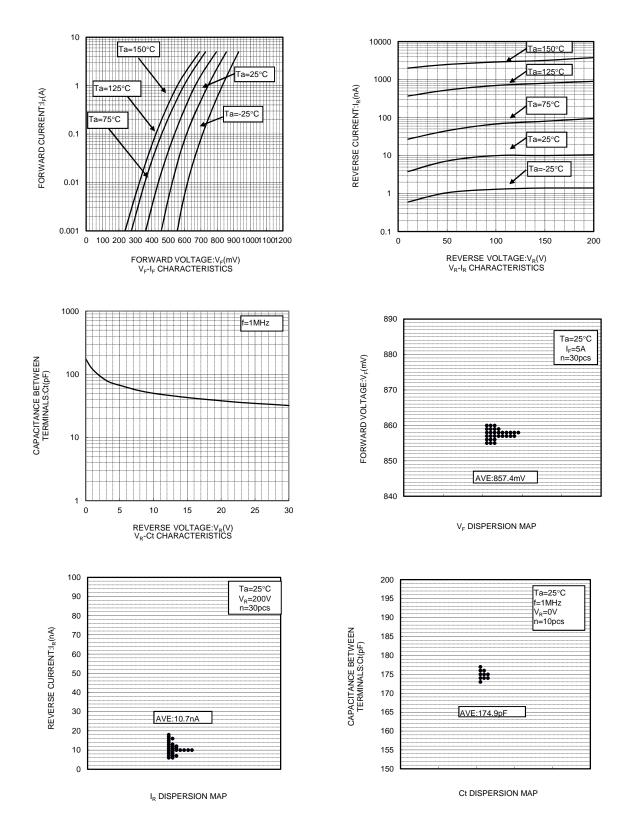
Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	V _{RM}	200	V	
Reverse voltage (DC)	V _R	200	V	
Average rectified forward current (*1)	lo	10	А	
Forward current surge peak (60Hz/1cyc)	I _{FSM}	80	А	
Junction temperature	Tj	150	°C	
Storage temoerature	Tstg	-55 to +150	°C	
(*4) Durain and for succession Dation of D land	T- 400.00	1/0 la manulia da		

(*1)Business frequencies, Rating of R-load, Tc=126 °C. 1/2 lo per diode

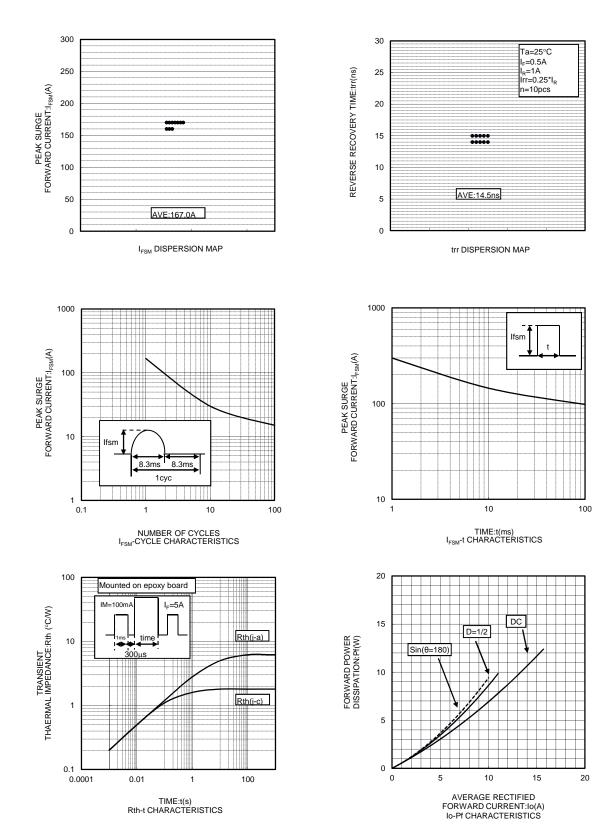
•Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F	-	0.87	0.93	V	I _F =5A
Reverse current	I _R	-	0.01	10	μA	V _R =200V
Reverse recovery time	trr	-	15	30	ns	$I_{F}=0.5A, I_{R}=1A, Irr=0.25*I_{R}$
Thermal impedance	Rth(j-c)	-	-	2.5	°C/W	JUNCTION TO CASE

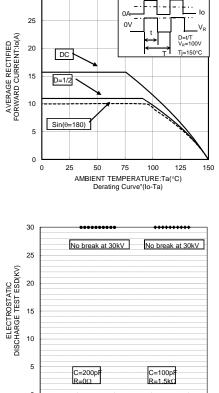
•Electrical characteristics curves



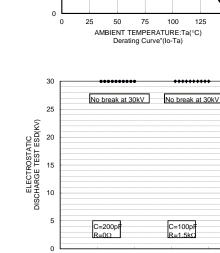
•Electrical characteristics curves



30



ESD DISPERSION MAP



30

25

20

15

10

5

0

0

DC

D=1/2

25

Sin(θ=180)

50

75

CASE TEMPARATURE:Tc(°C) Derating Curve"(Io-Tc)

100 125

AVERAGE RECTIFIED FORWARD CURRENT:I0(A)

Ŀŀ

D=t/T

Tj=150°C

lo

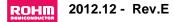
v.

150

- • F • -- •

0A

0V



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