

Super Fast Recovery Diode

RF1005TF6S

●Series

Standard Fast Recovery

●Applications

General rectification

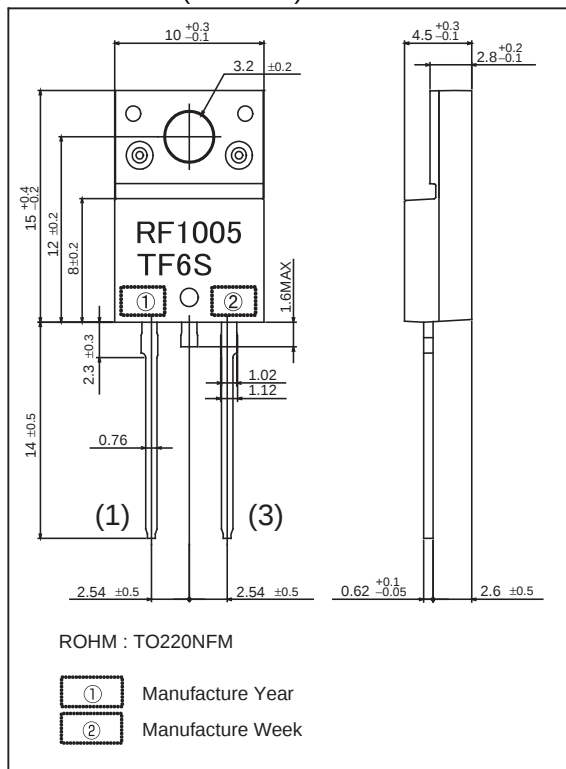
●Features

- 1)Single type.(TO-220)
- 2)High switching speed

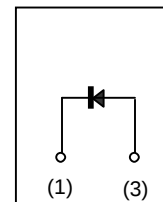
●Construction

Silicon epitaxial planer

●Dimensions (Unit : mm)



●Structure



●Absolute maximum ratings (Tc=25°C)

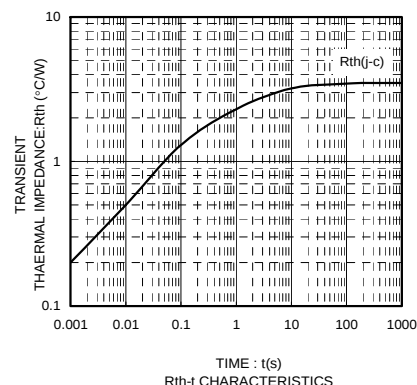
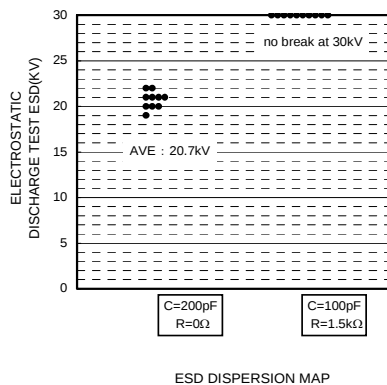
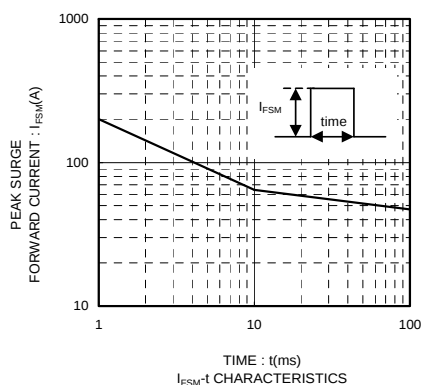
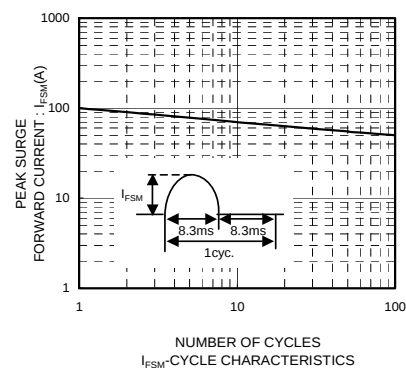
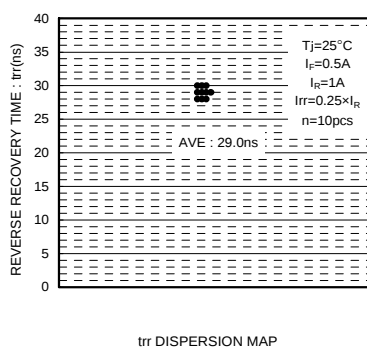
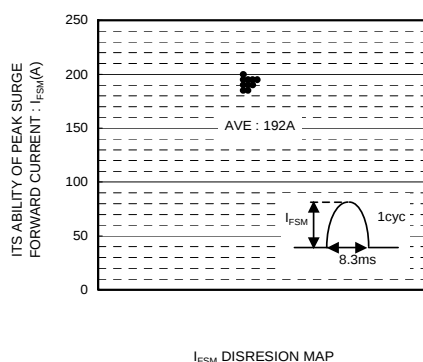
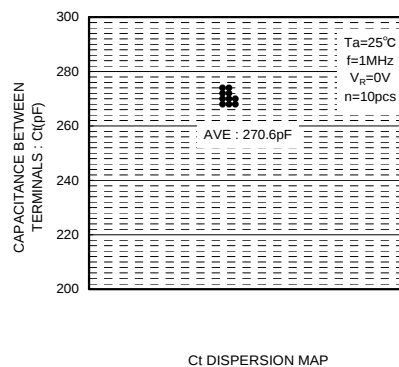
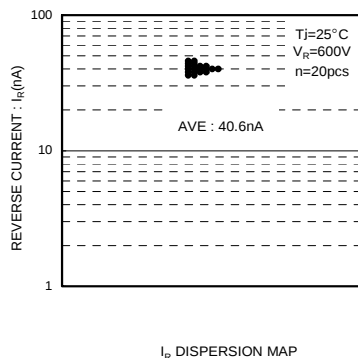
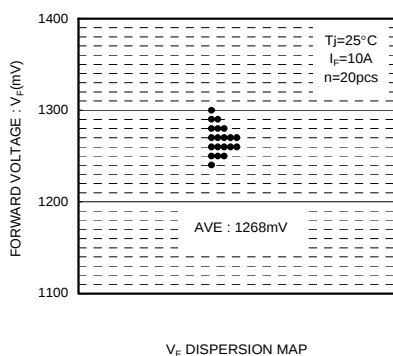
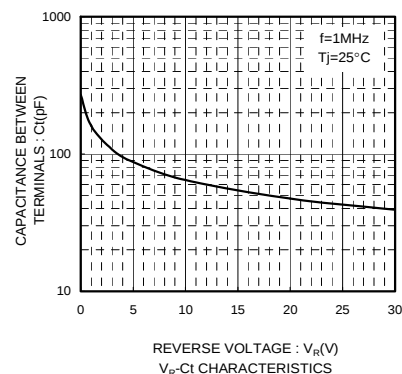
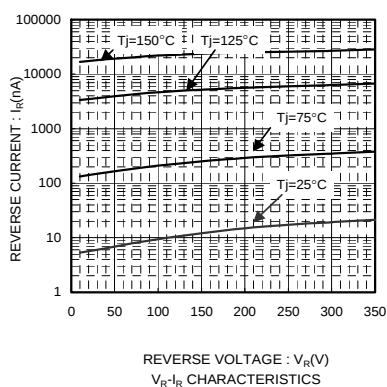
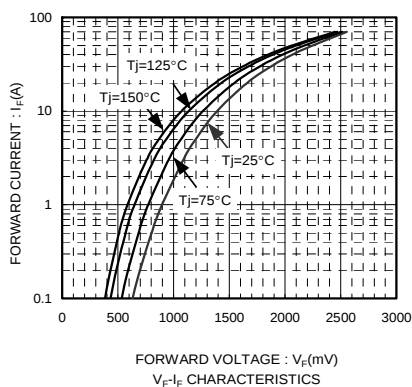
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty ≤ 0.5	600	V
Reverse voltage	V_R	Direct voltage	600	V
Average rectified forward current	I_O	60Hz half sin wave, Resistance load, $T_C=78^\circ\text{C}$	10	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, $T_j=25^\circ\text{C}$	100	A
Junction temperature	T_j		150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

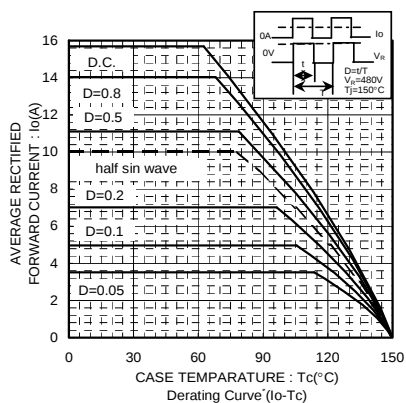
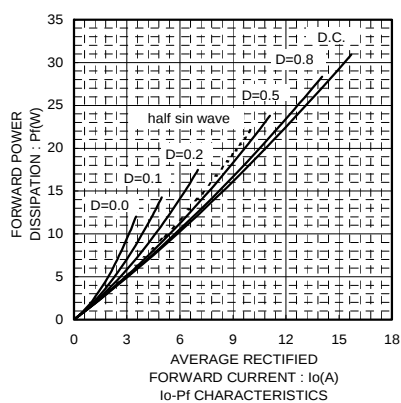
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=10\text{A}$	-	1.4	1.7	V
Reverse current	I_R	$V_R=600\text{V}$	-	0.05	10	μA
Reverse recovery time(*)	t_{rr}	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25 \times I_R$	-	30	40	ns
Thermal resistance(*)	$R_{th(j-c)}$	junction to case	-	-	3.5	$^\circ\text{C/W}$

(*) : Design assurance without measurement.

●Electrical characteristics curves





Notes

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