

Super Fast Recovery Diode

RF1005TF6S

Series

Standard Fast Recovery

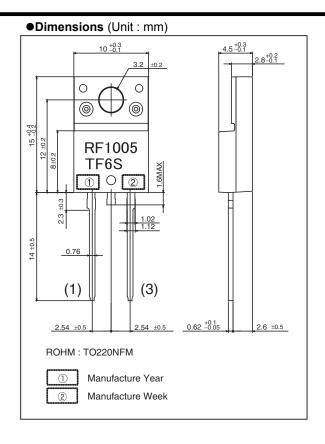
Applications

General rectification

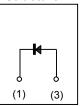
● Features

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

Silicon epitaxial planer



●Structure



● Absolute maximum ratings (Tc=25°C)

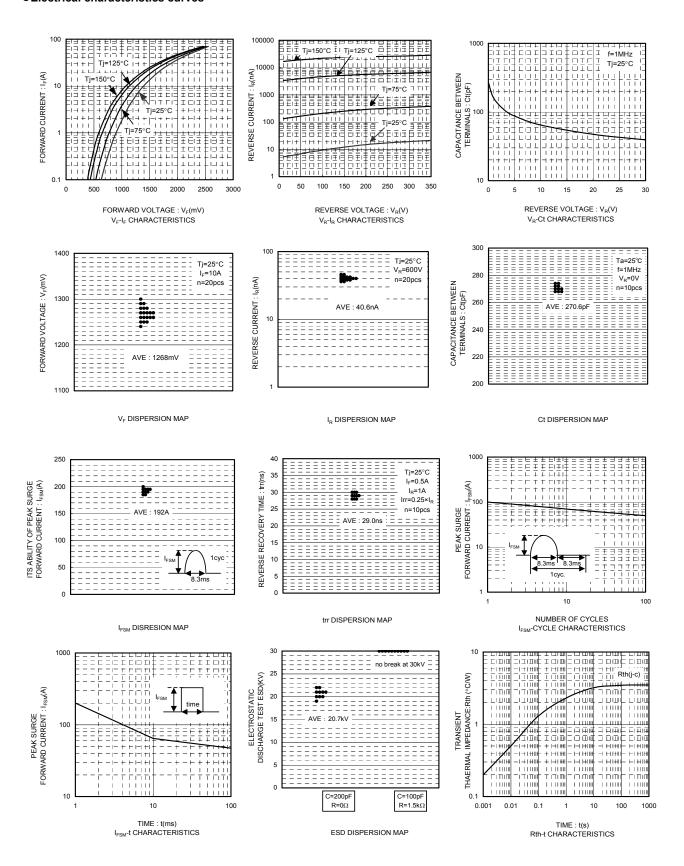
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty ≤0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified forward current	lo	60Hz half sin wave, Resistance load,	Tc=78°C	10	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C		100	Α
Junction temperature	Tj			150	°C
Storage temperature	Tstg			−55 to +150	°C

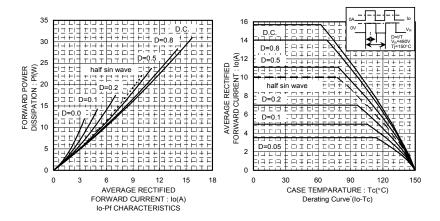
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =10A	-	1.4	1.7	V
Reverse current	I _R	V _R =600V	-	0.05	10	μA
Reverse recovery time(*)	trr	$I_F=0.5A,I_R=1A,Irr=0.25\times I_R$	-	30	40	ns
Thermal resistance(*)	Rth(j-c)	junction to case	-	-	3.5	°C/W

^{(*):} Design assurance without measurement.

Electrical characteristics curves





Notes

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