

(3)

# Super Fast Recovery Diode

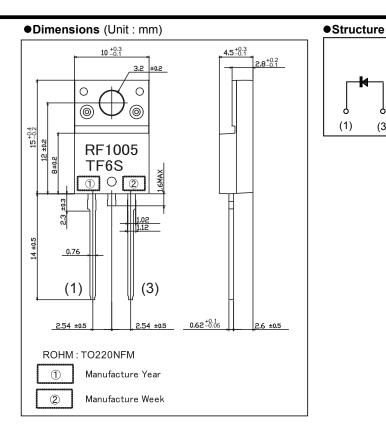
### **RF1005TF6S**

 Series Standard Fast Recovery

 Applications General rectification

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

Construction Silicon epitaxial planer



#### Absolute maximum ratings (Tc=25°C)

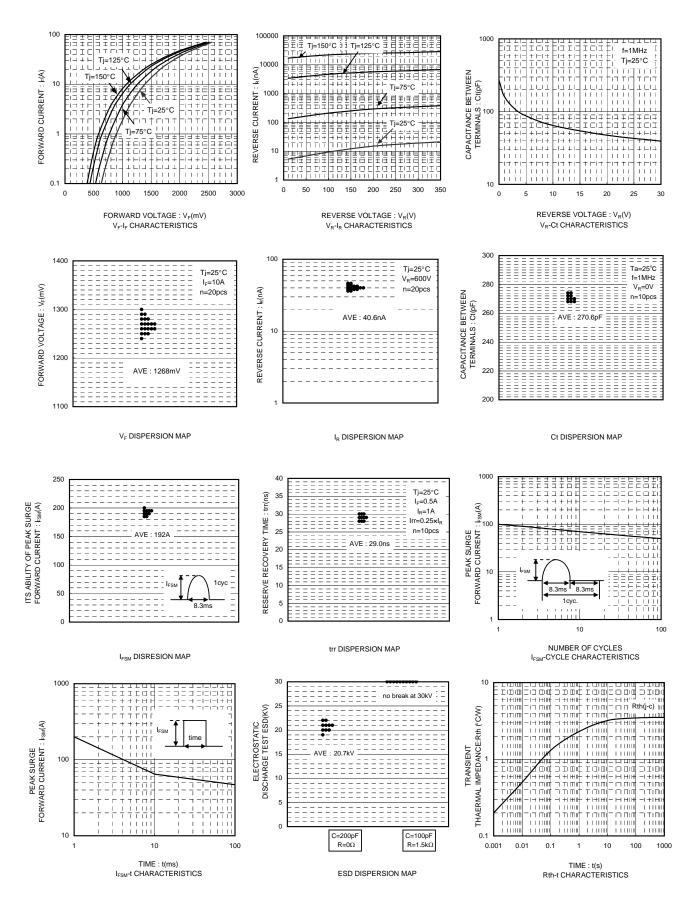
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V <sub>RM</sub>	Duty ≤0.5	600	V
Reverse voltage	V <sub>R</sub>	Direct voltage	600	V
Average rectified forward current	lo	60Hz half sin wave, Resistance load, Tc=78°C	10	А
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin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

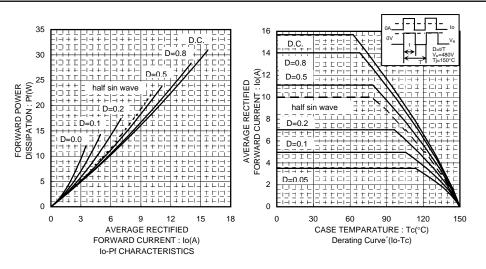
#### •Electrical characteristics (Tj=25°C)

Parameter	Symbol	ol Conditions		Тур.	Max.	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10A	-	1.4	1.7	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =600V	-	0.05	10	μA
Reverse recovery time(*)	trr	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,Irr=0.25×I <sub>R</sub>	-	30	40	ns
Thermal resistance(*) Rth(j		junction to case	-	-	3.5	°C/W

(\*) : Design assurance without measurement.

#### Electrical characteristics curves





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