

Super Fast Recovery Diode RFN20TF6S

•Serise

Standard Fast Recovery

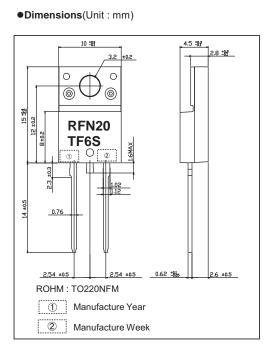
•Applications General rectification

Features

1)Low switching loss

2)High current overload capacity

•Construction Silicon epitaxial planer type



Structure

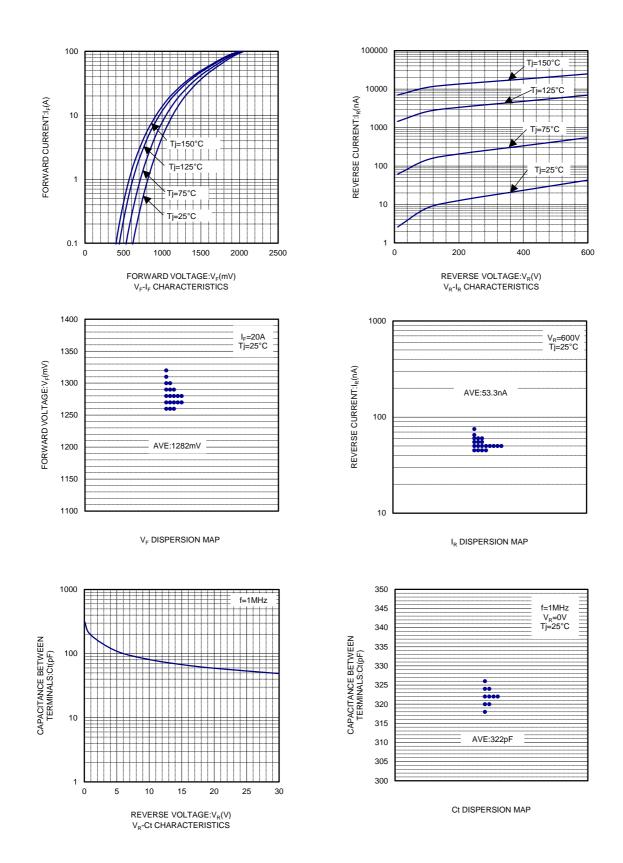


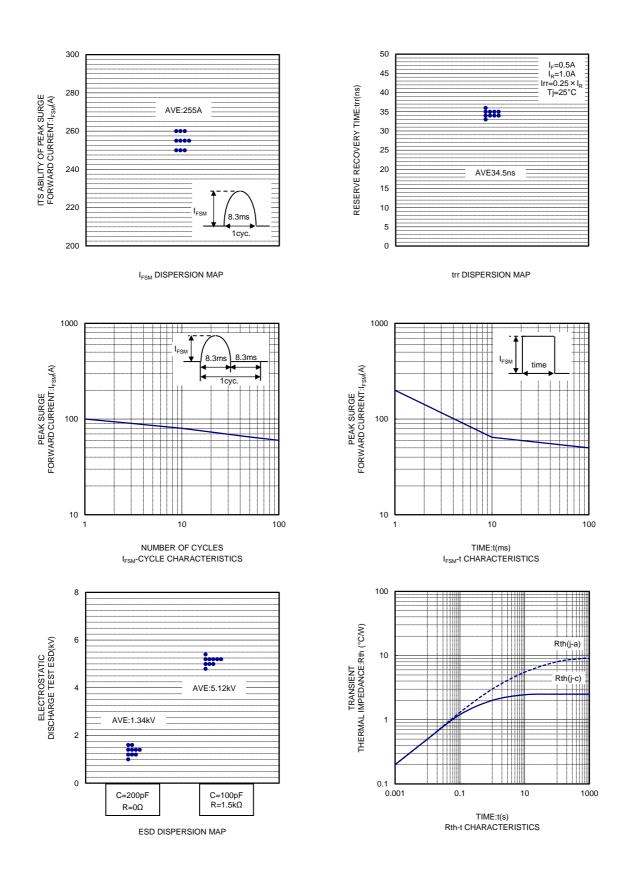
•Absolute Maximum Ratings(Tc=25°C)

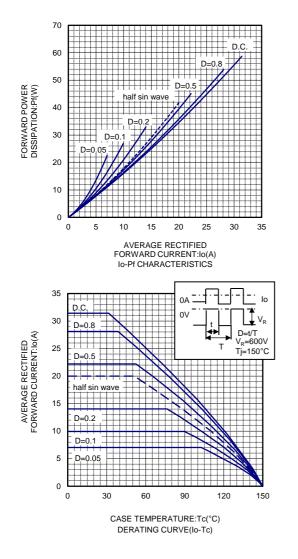
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V _{RM}	Duty≦0.5		600	V
Reverse voltage	V _R	Direct voltage		600	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=51°C	20	А
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at	Tj=25°C	100	А
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

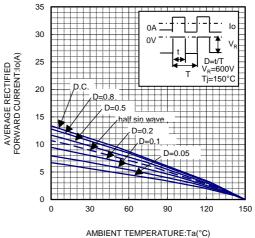
•Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =20A	_	1.25	1.55	V
Reverse current	I _R	V _R =600V	—	0.05	10	μA
Reverse recovery time	trr	$I_F=0.5A$, $I_R=1A$, $Irr=0.25 \times I_R$	—	40	60	ns
Thermal resistance	Rth(j-c)	Junction to case	_	—	2.5	°C/W









DERATING CURVE(Io-Ta)

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