

# Super Fast Recovery Diode

## RFN10TF6S

#### ●Serise

Standard Fast Recovery

### Applications

General rectification

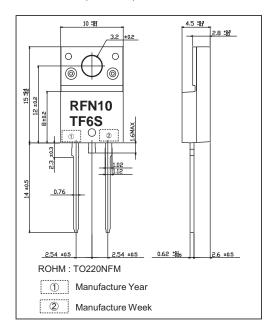
#### ● Features

- 1)Low switching loss
- 2)High current overload capacity

#### Construction

Silicon epitaxial planer type

#### ● Dimensions (Unit: mm)



#### Structure

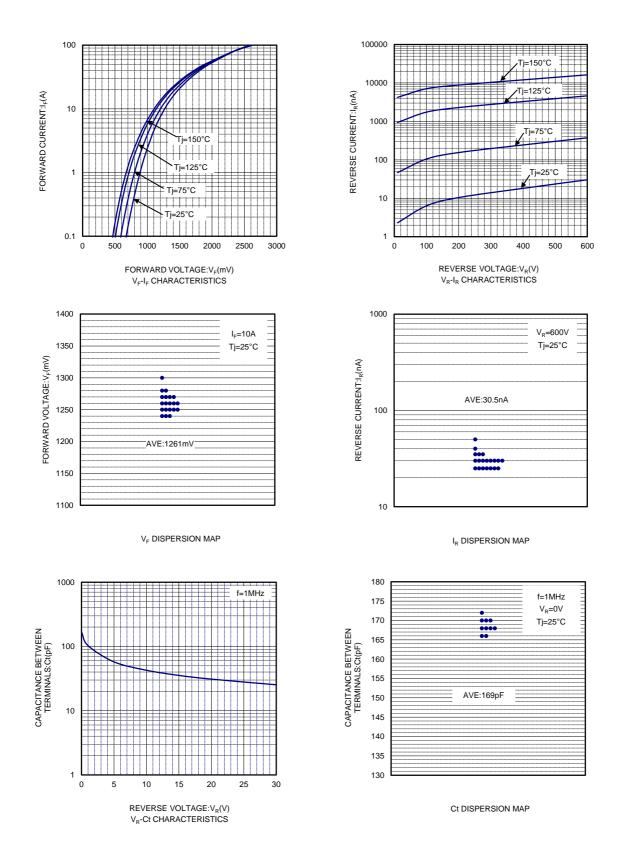


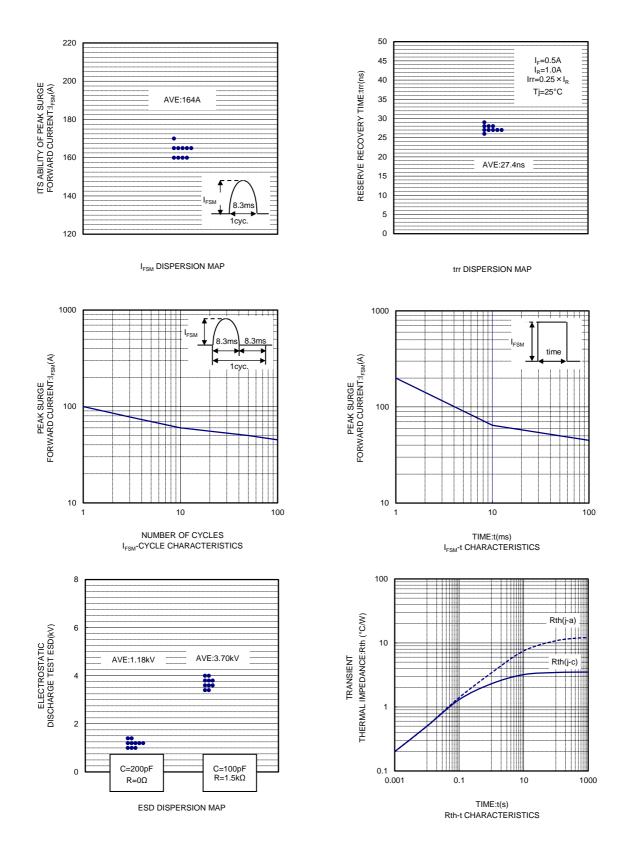
#### ● Absolute Maximum Ratings(Tc=25°C)

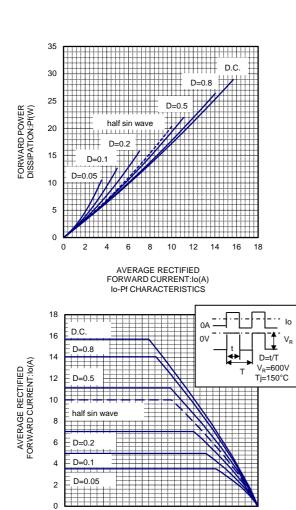
Parameter	Symbol	Conditions	Limits	Unit	
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5		600	V
Reverse voltage	$V_R$	Direct voltage		600	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=82°C	10	Α
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave , Non-repetitive at Tj=25°C		Tj=25°C 100	
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 <sub>F</sub>	I <sub>F</sub> =10A	_	1.25	1.55	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =600V	_	0.05	10	μA
Reverse recovery time	trr	$I_F$ =0.5A, $I_R$ =1A, $I_R$ =0.25× $I_R$	_	30	50	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	3.5	°C/W





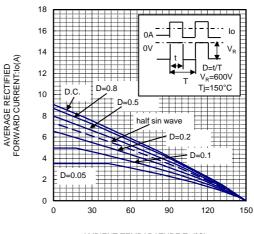


30

CASE TEMPARATURE:Tc(°C)
DERATING CURVE(Io-Tc)

120

150



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