

# Super Fast Recovery Diode

#### ●Serise

Super Fast Recovery

# Applications

General rectification

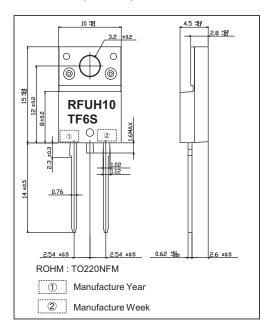
# ● Features

- 1)Ultra low switching loss
- 2)High current overload capacity

# Construction

Silicon epitaxial planer type

# ●Dimensions(Unit:mm)



#### Structure

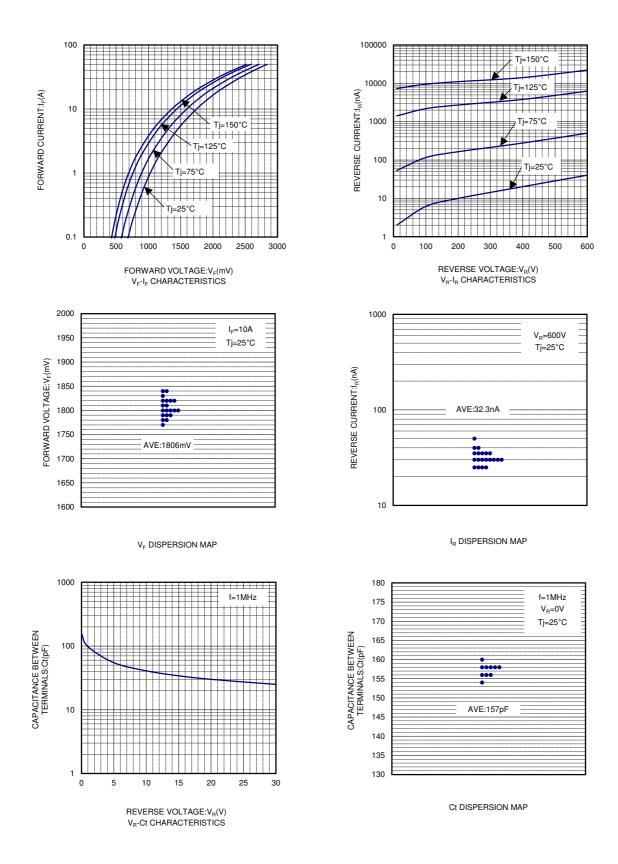


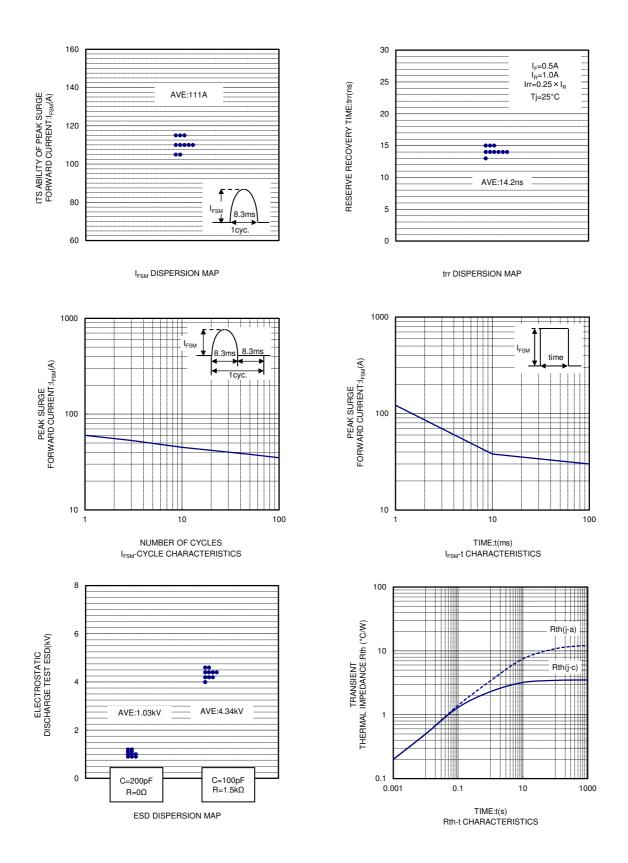
# ● Absolute Maximum Ratings (Tc=25°C)

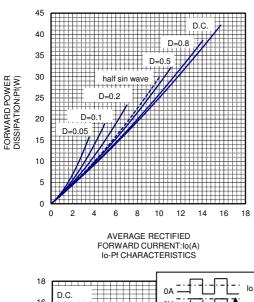
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5		600	V
Reverse voltage	$V_R$	Direct voltage		600	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=52°C	10	Α
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave , Non-repetitive at Tj=25°C		Tj=25°C 60	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

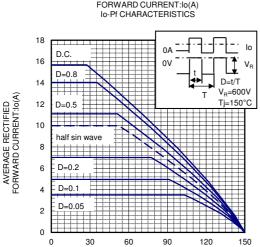
# ●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F}$	I <sub>F</sub> =10A	_	1.8	2.8	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× $I_R$	_	15	25	ns
Thermal resistance	Rth(j-c)	Junction to case	-	_	3.5	°C/W









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

DERATING CURVE(Io-Ta)

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