

Super Fast Recovery Diode

RFUH10NS6S

●Serise

Super Fast Recovery

Applications

General rectification

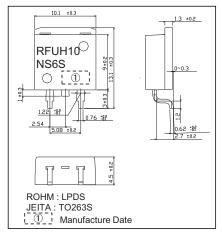
Features

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

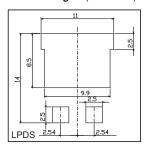
Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)

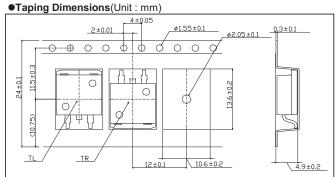


●Land Size Figure(Unit : mm)



Structure





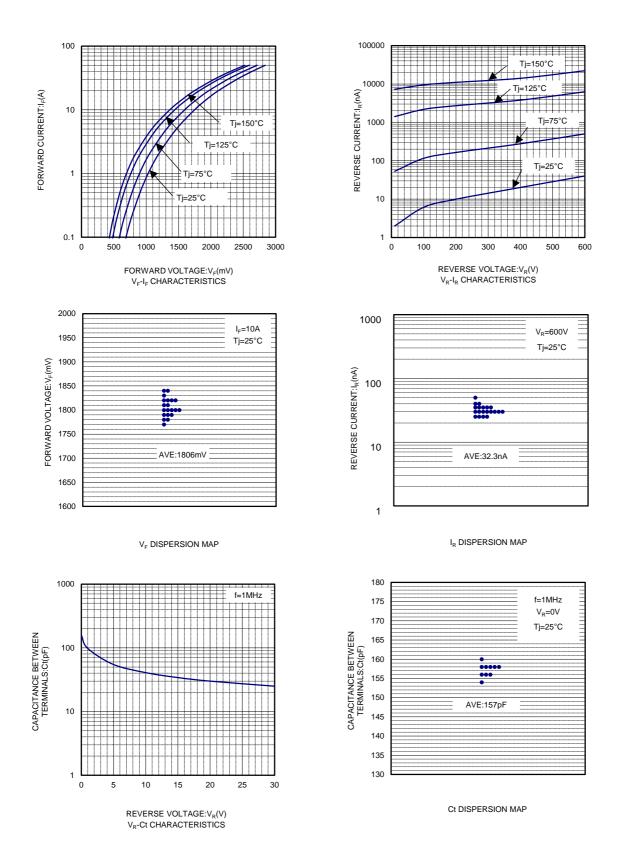
● Absolute Maximum Ratings(Tc=25°C)

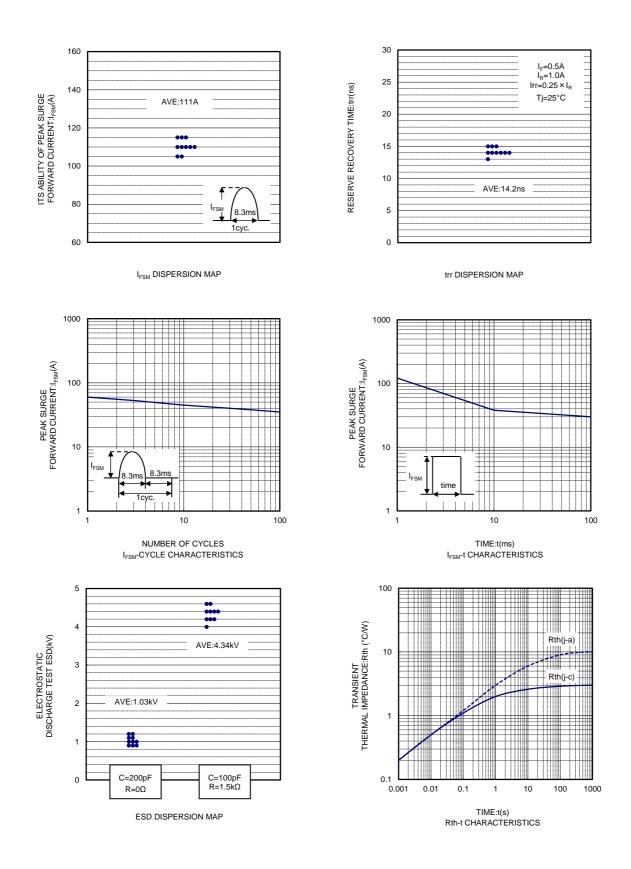
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=64°C	10	А
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C (*1)		j=25°C ^(*1) 60	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

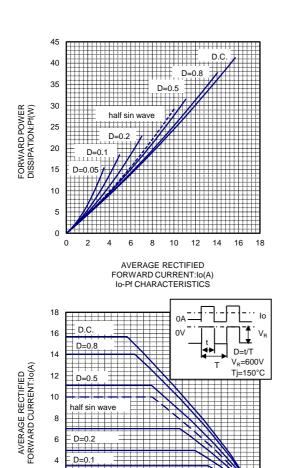
(*1) 1-3pin common circuit

●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =10A	_	1.8	2.8	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×I _R	_	15	25	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	3.0	°C/W







D=0.05

30

60

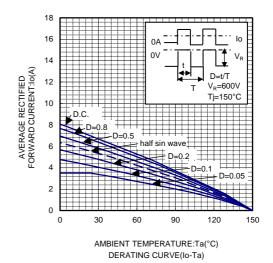
CASE TEMPERATURE:Tc(°C)
DERATING CURVE(Io-Tc)

90

120

150

0



Notes

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