



Super Fast Recovery Diode

RFN10NS6S

Serise

Standard Fast Recovery

Applications

General rectification

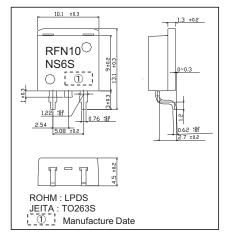
Features

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

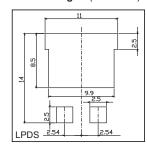
Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)



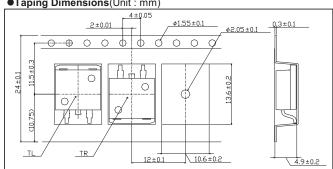
●Land Size Figure(Unit : mm)



Structure



●Taping Dimensions(Unit : mm)



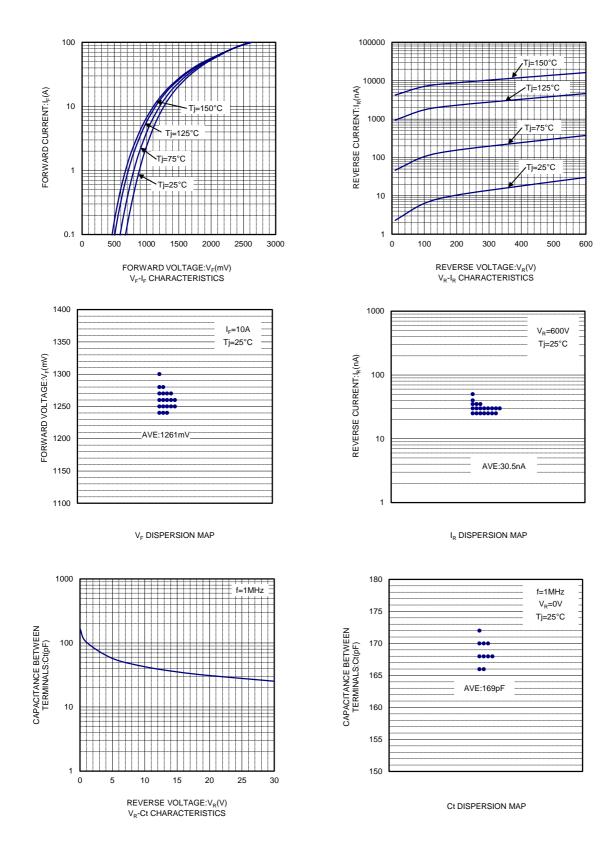
● Absolute Maximum Ratings(Tc=25°C)

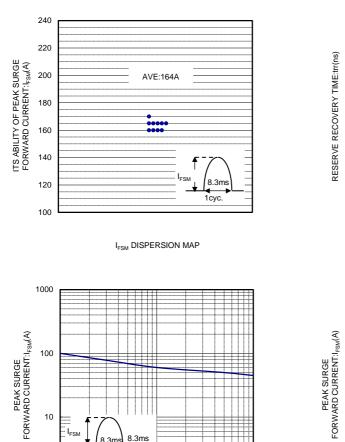
Parameter	Symbol	Conditions	Limits	Unit	
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	600	V	
Reverse voltage	V_R	Direct voltage		600	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=91°C	10	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C (*1)		=25°C ^(*1) 100	
Junction temperature	Tj		150	°C	
Storage temperature	Tstg			-55 to +150	°C

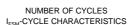
(*1) 1-3pin common circuit

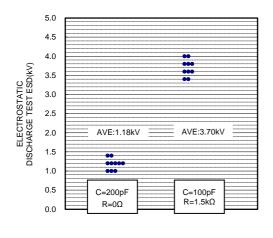
●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =10A	_	1.25	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×I _R	_	30	50	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	3.0	°C/W

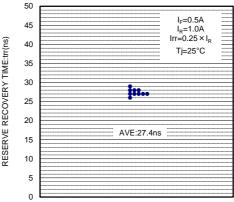




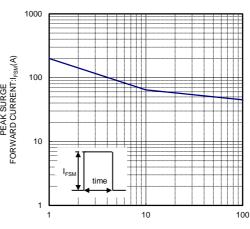




ESD DISPERSION MAP



trr DISPERSION MAP

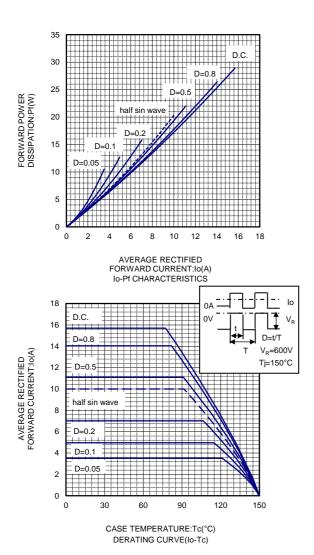


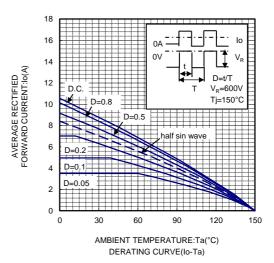
TIME:t(ms)
I_{FSM}-t CHARACTERISTICS

HERMAL IMPEDANCE:RH ('COM)

TIME:t(s)

Rth-t CHARACTERISTICS





Notes

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