

Super Fast Recovery Diode

RFUH10NS4S

●Serise

Super Fast Recovery

Applications

General rectification

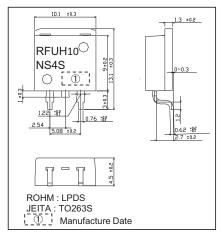
Features

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

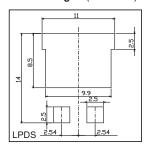
Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)



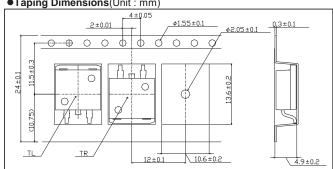
●Land Size Figure(Unit: mm)



Structure



●Taping Dimensions(Unit : mm)



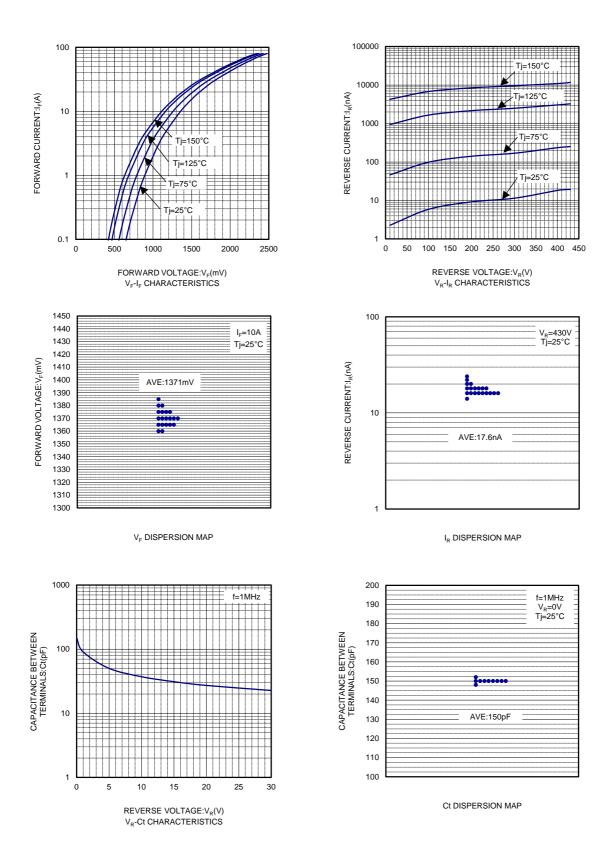
● Absolute Maximum Ratings(Tc=25°C)

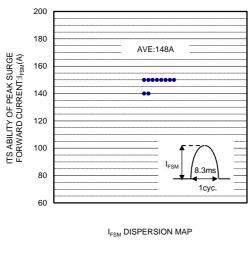
Parameter	Symbol	Conditions	Limits	Unit	
Repetitive peak reverse voltage	V_{RM}	Duty≤0.5	430	V	
Reverse voltage	V_R	Direct voltage		430	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=70°C	10	А
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C		j=25°C 80	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

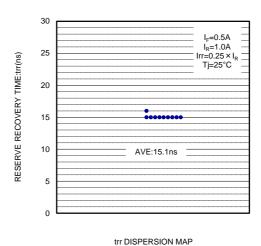
(*1) 1-3pin common circuit

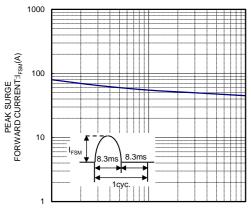
●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =10A	_	1.4	1.7	V
Reverse current	I _R	V _R =430V	_	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	_	_	4.0	°C/W



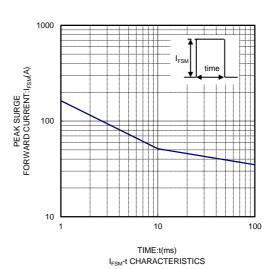


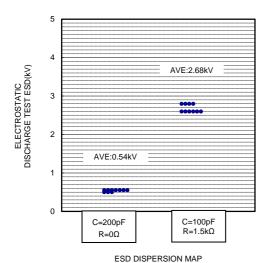


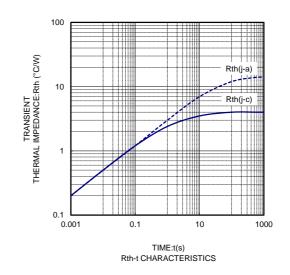


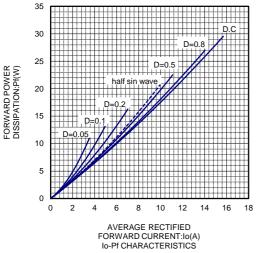
NUMBER OF CYCLES

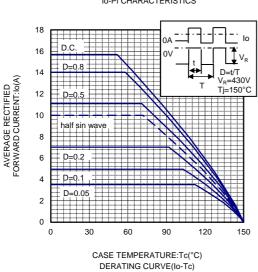
I_{ESM}-CYCLE CHARACTERISTICS

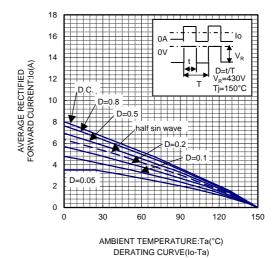












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