

Super Fast Recovery Diode

RFUH10NS4S

●Series

Super Fast Recovery

●Applications

General rectification

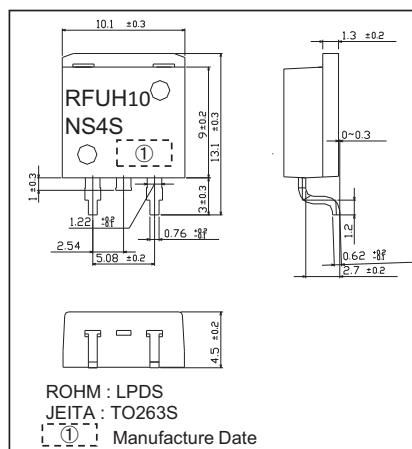
●Features

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

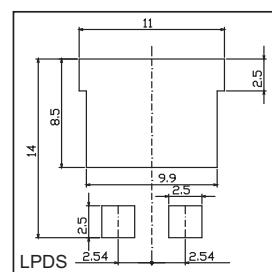
●Construction

Silicon epitaxial planer type

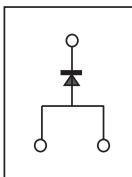
●Dimensions(Unit : mm)



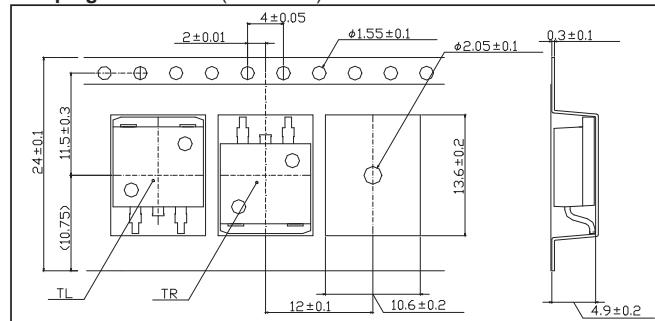
●Land Size Figure(Unit : mm)



●Structure



●Taping Dimensions(Unit : mm)



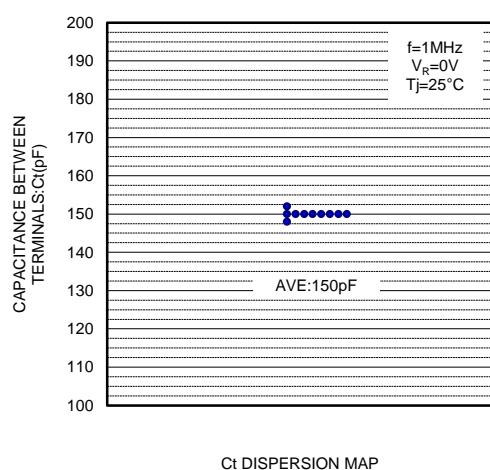
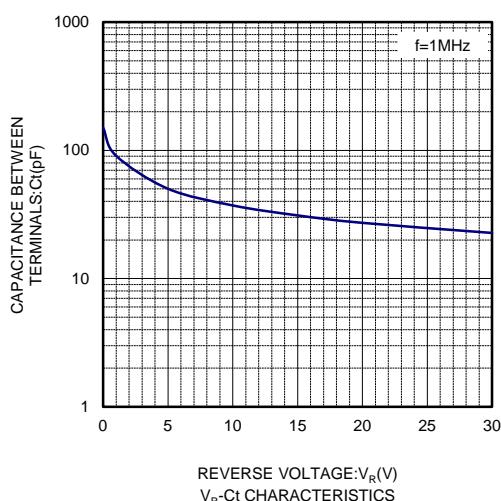
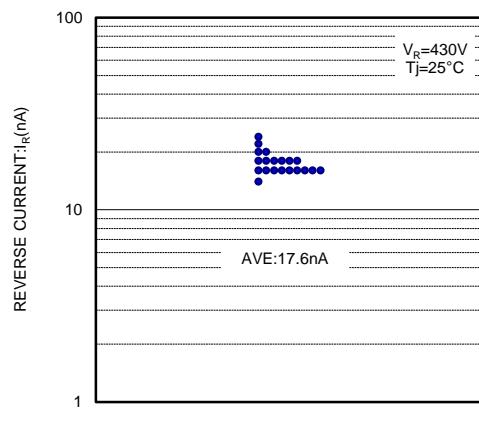
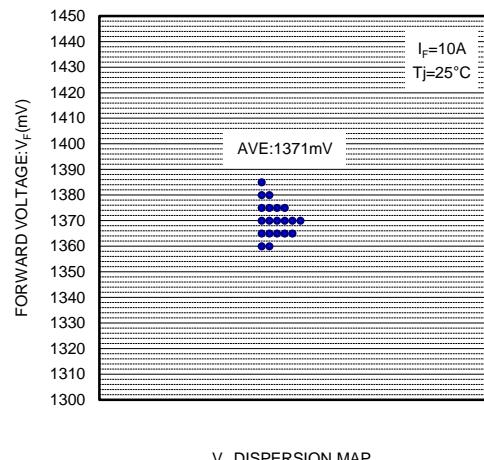
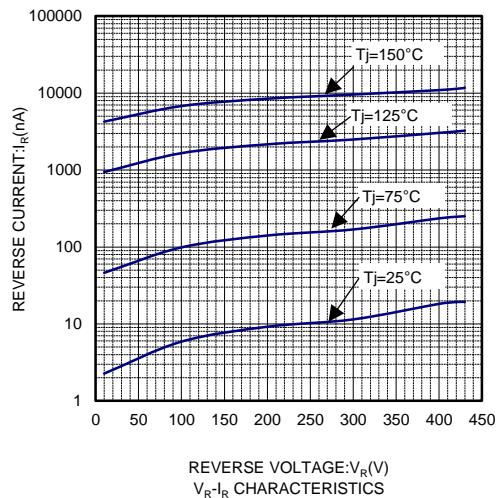
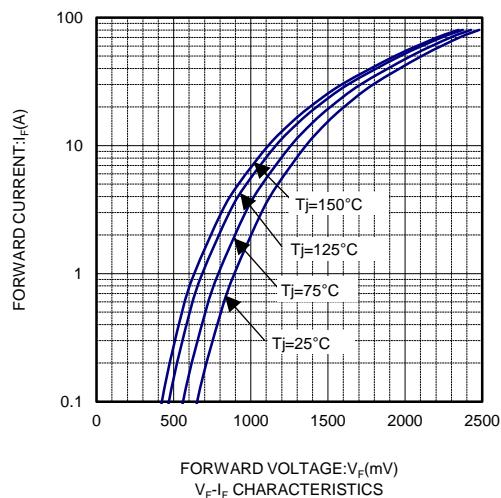
●Absolute Maximum Ratings($T_c=25^\circ\text{C}$)

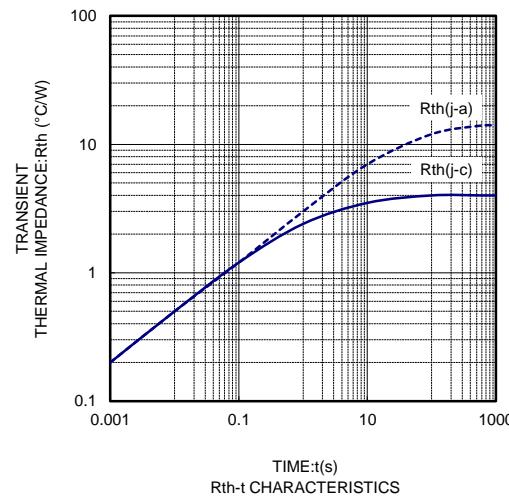
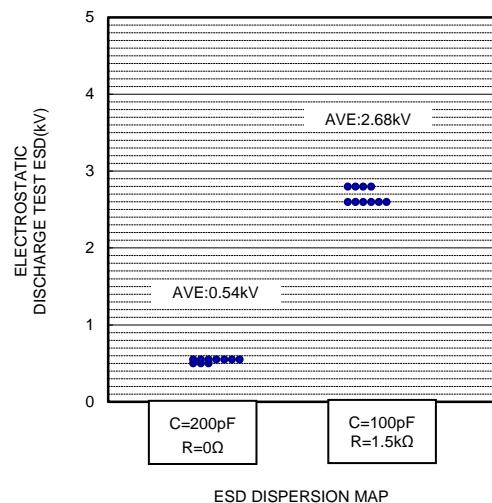
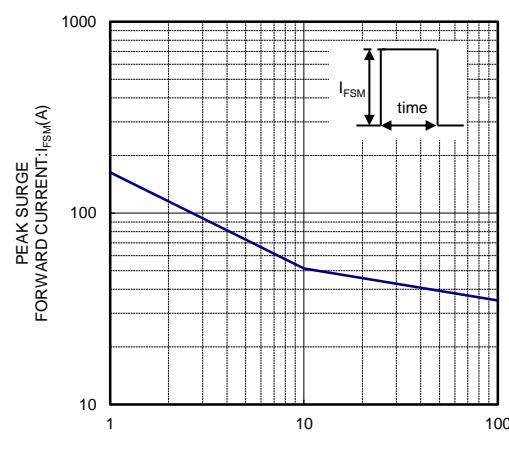
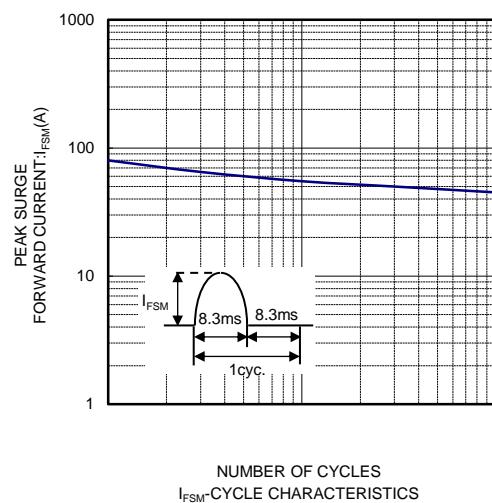
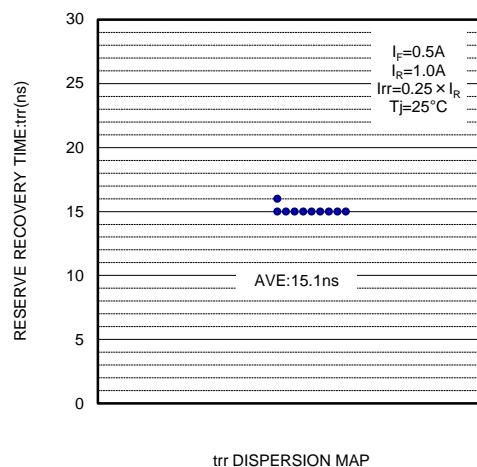
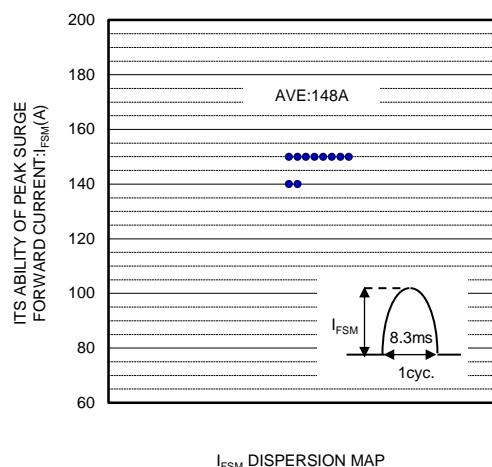
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	$\text{Duty} \leq 0.5$	430	V
Reverse voltage	V_R	Direct voltage	430	V
Average rectified forward current	I_o	60Hz half sin wave, Resistive load	10	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive at $T_j=25^\circ\text{C}$	80	A
Junction temperature	T_j		150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

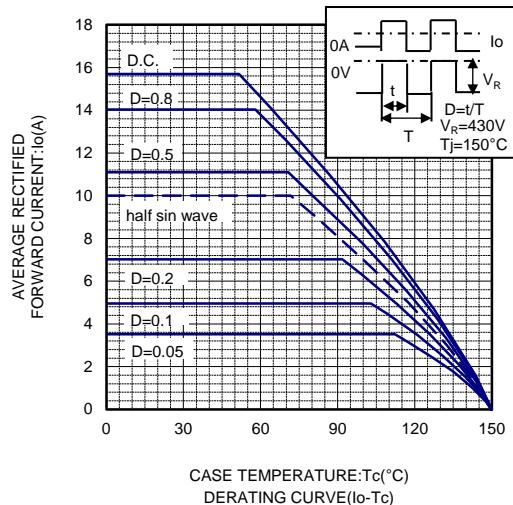
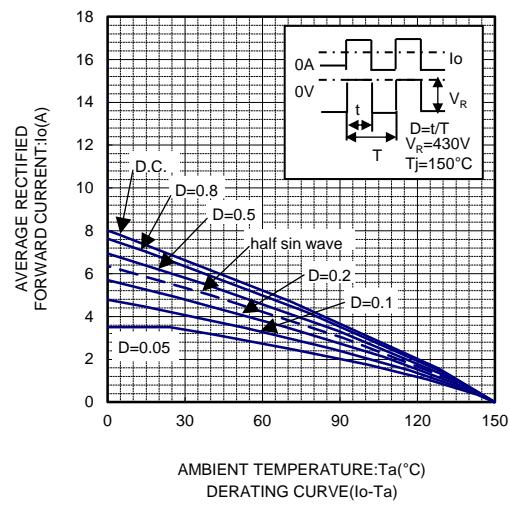
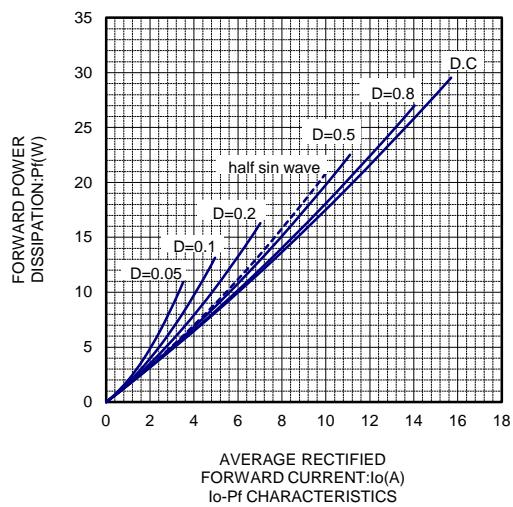
(*1) 1-3pin common circuit

●Electrical Characteristics($T_j=25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=10\text{A}$	—	1.4	1.7	V
Reverse current	I_R	$V_R=430\text{V}$	—	0.05	10	μA
Reverse recovery Time	trr	$I_F=0.5\text{A}, I_R=1\text{A}, Irr=0.25 \times I_R$	—	15	25	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	—	—	4.0	$^\circ\text{C/W}$







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