

Super Fast Recovery Diode

RFN2L4S
●Series

Standard Fast Recovery

●Applications

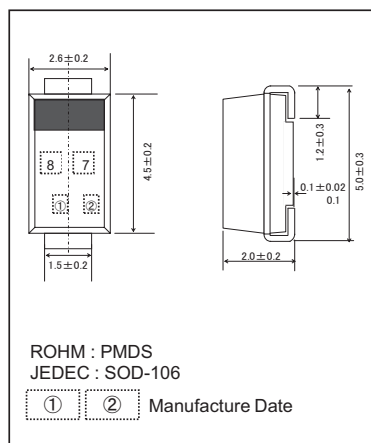
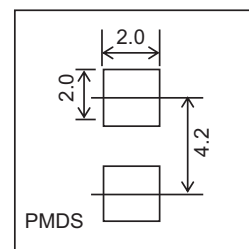
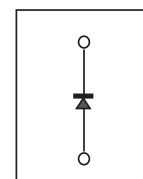
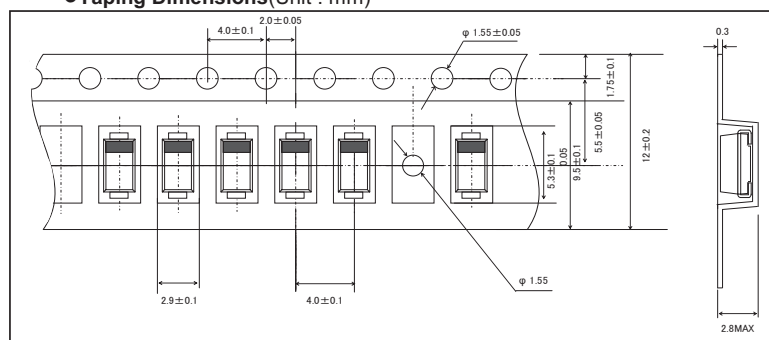
General rectification

●Features

- 1) Small power mold type(PMDS)
- 2) Low switching loss
- 3) Low forward voltage

●Construction

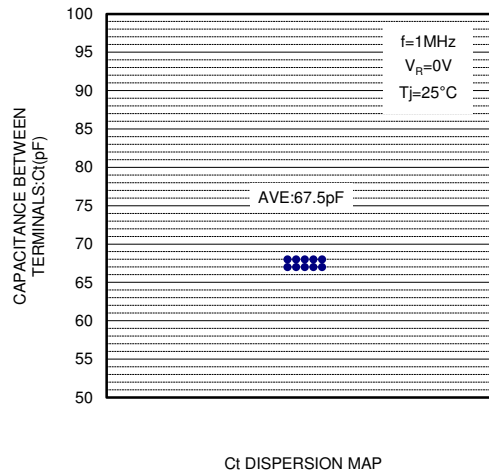
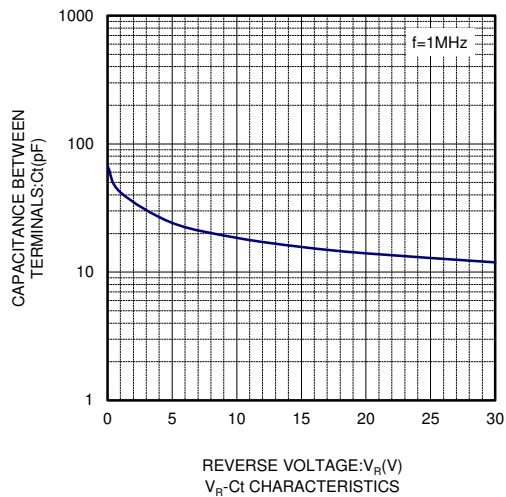
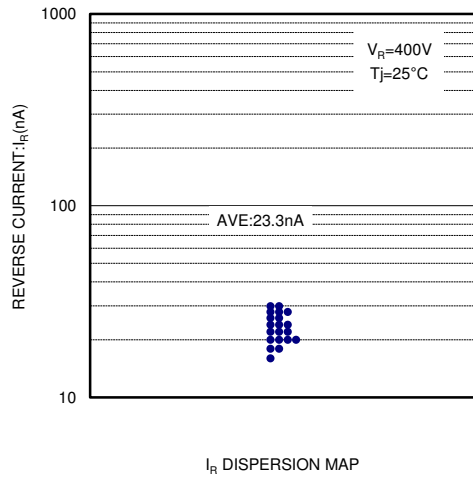
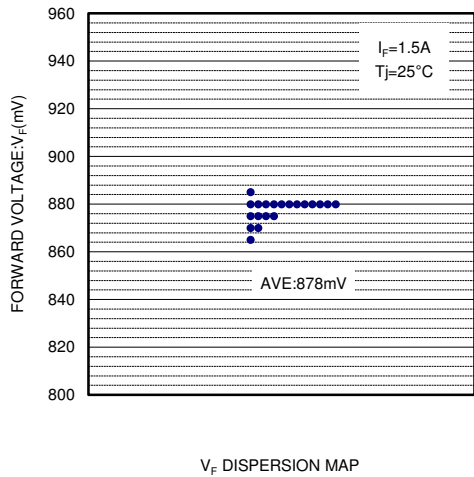
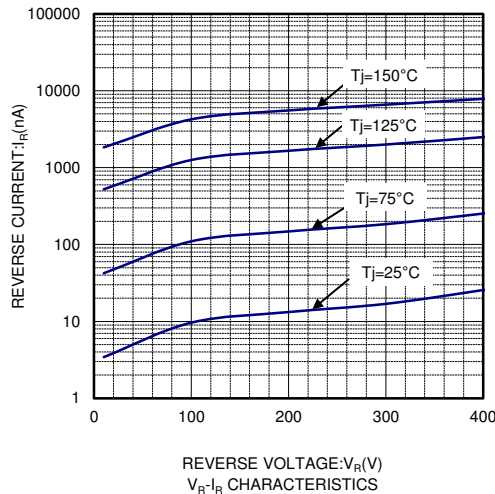
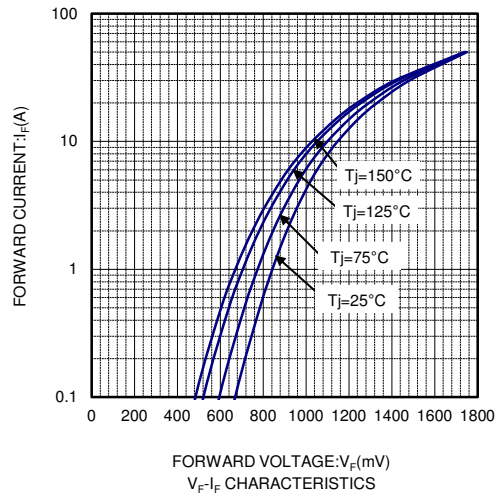
Silicon epitaxial planer type

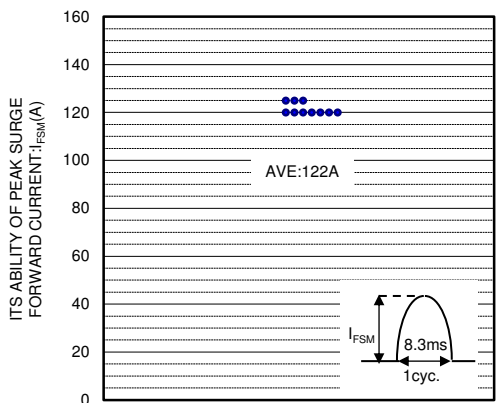
●Dimensions(Unit : mm)

●Land Size Figure(Unit : mm)

●Structure

●Taping Dimensions(Unit : mm)

●Absolute Maximum Ratings(TI=25°C)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≤0.5	400	V
Reverse voltage	V_R	Direct voltage	400	V
Average rectified forward current	I_o	On glass epoxy substrate, 60Hz half sin wave , Resistive load	1.5	A
Forward current surge peak	I_{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C	50	A
Junction temperature	Tj		150	°C
Storage temperature	Tstg		-55 to +150	°C

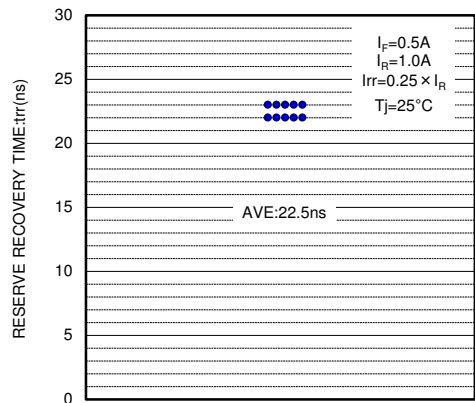
●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=1.5A$	—	0.88	1.2	V
Reverse current	I_R	$V_R=400V$	—	0.01	1	μA
Reverse recovery time	t_{rr}	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \times I_R$	—	22	30	ns
Thermal resistance	$R_{th(j-l)}$	Junction to lead	—	—	23	°C/W

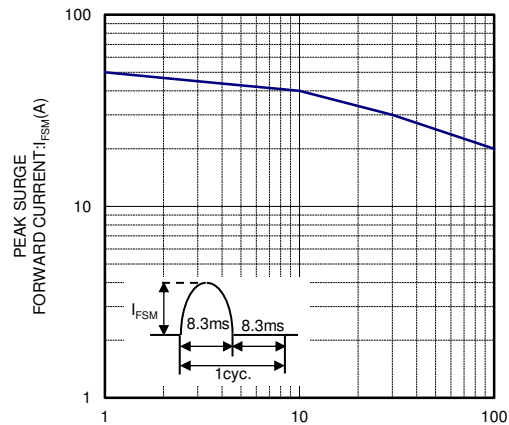




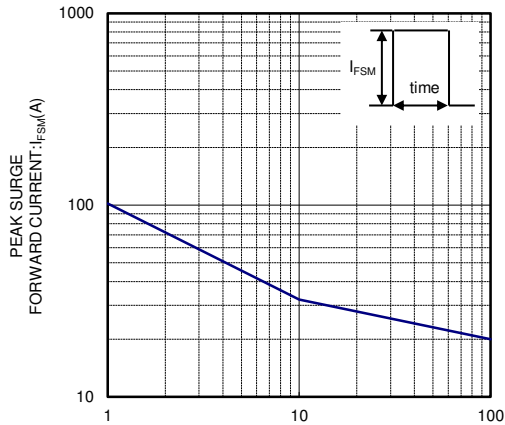
I_FSM DISPERSION MAP



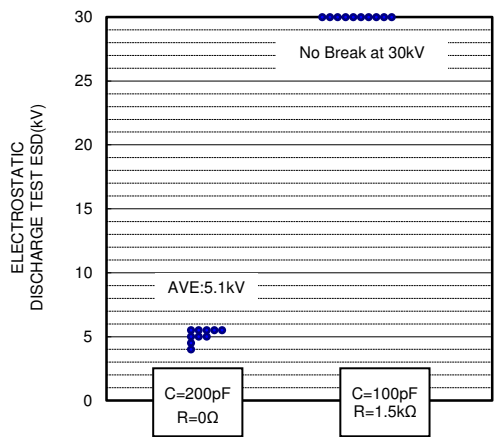
t_rr DISPERSION MAP



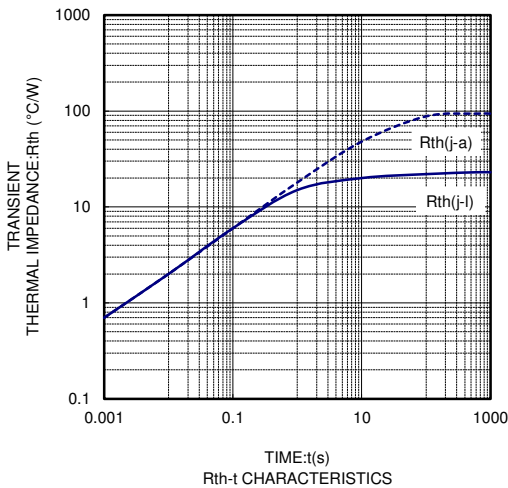
I_FSM CYCLE CHARACTERISTICS



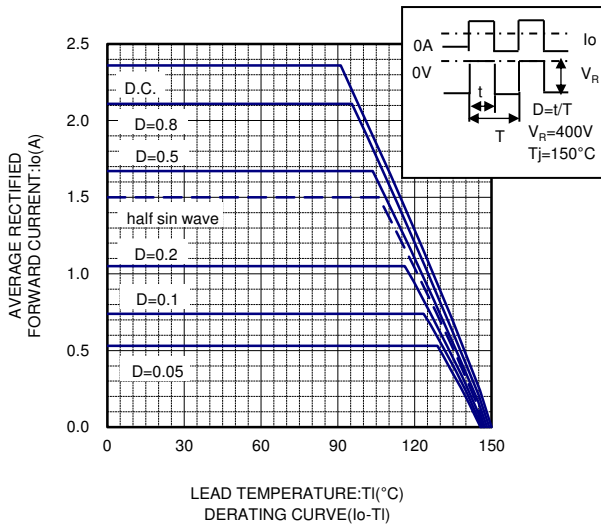
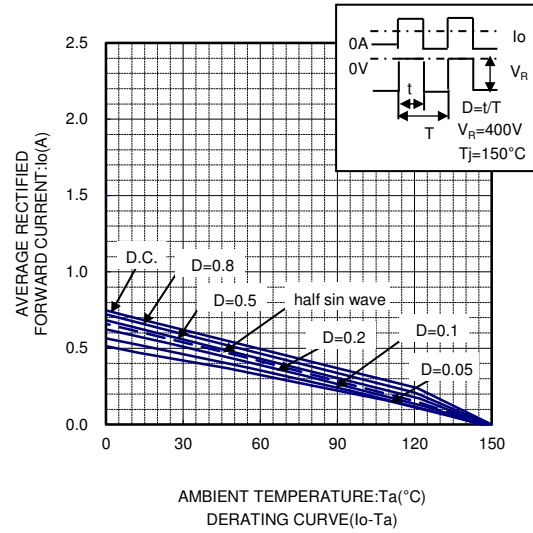
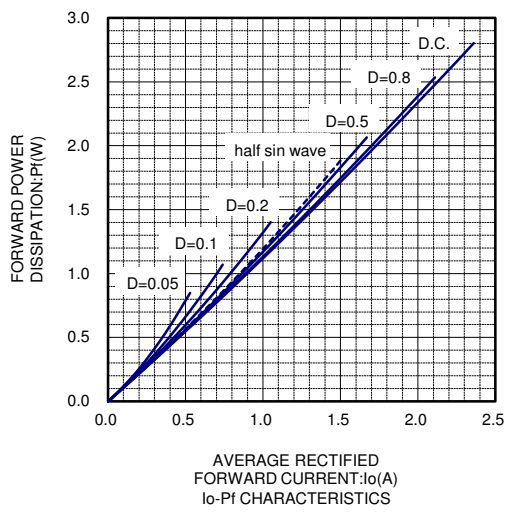
I_FSM-t CHARACTERISTICS



ESD DISPERSION MAP



R_th-t CHARACTERISTICS



Notes

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