

Super Fast Recovery Diode

RFN1L6S

●Series

Standard Fast Recovery

●Applications

General rectification

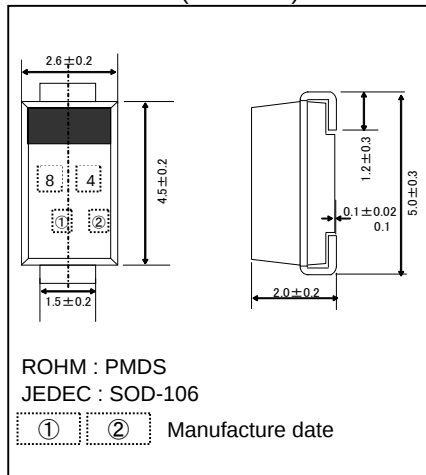
●Features

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

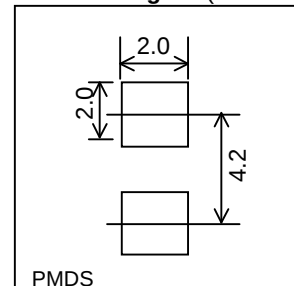
●Construction

Silicon epitaxial planer

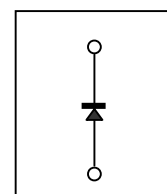
●Dimensions (Unit : mm)



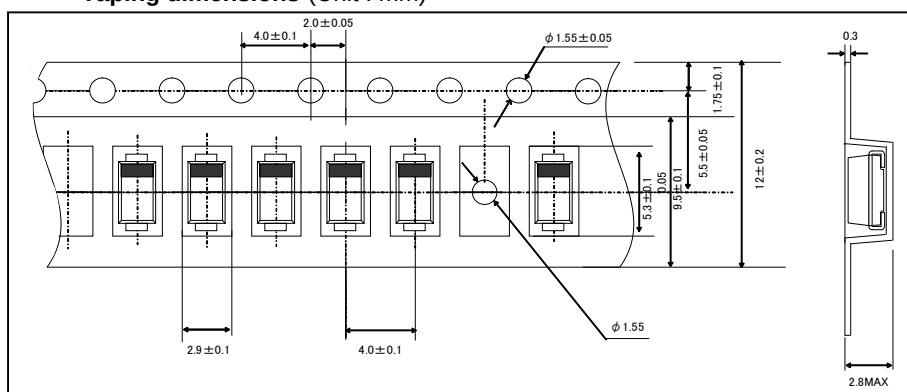
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

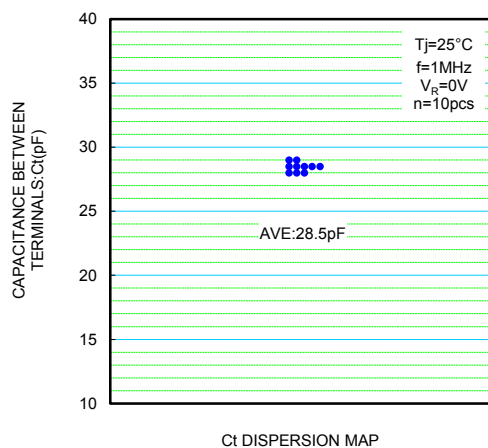
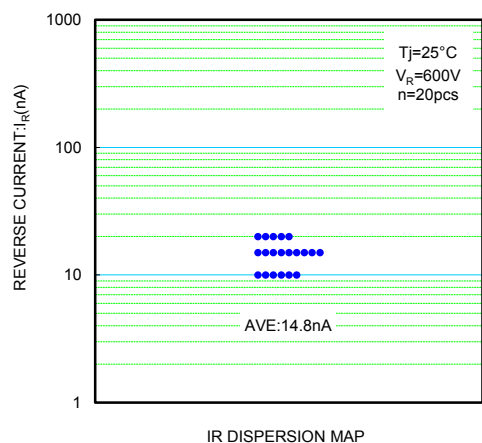
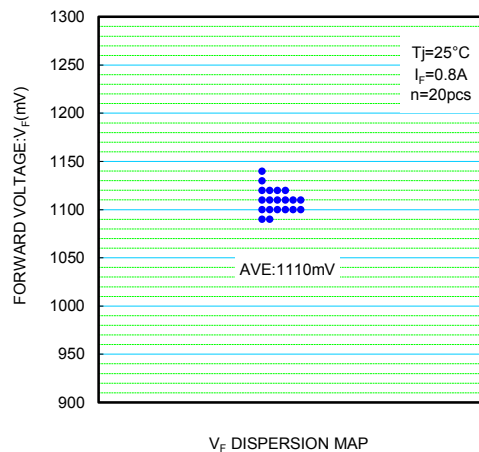
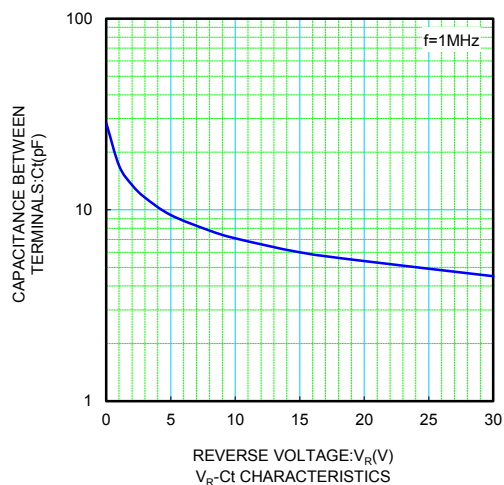
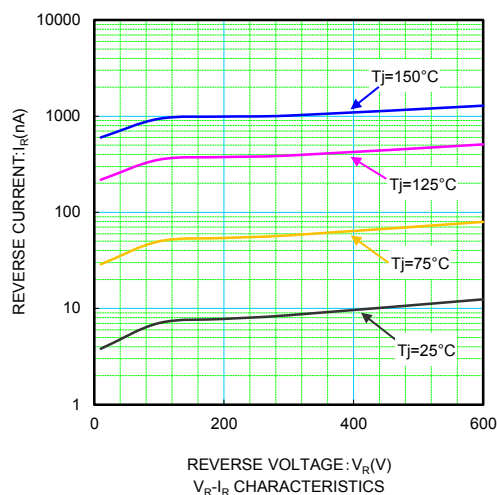
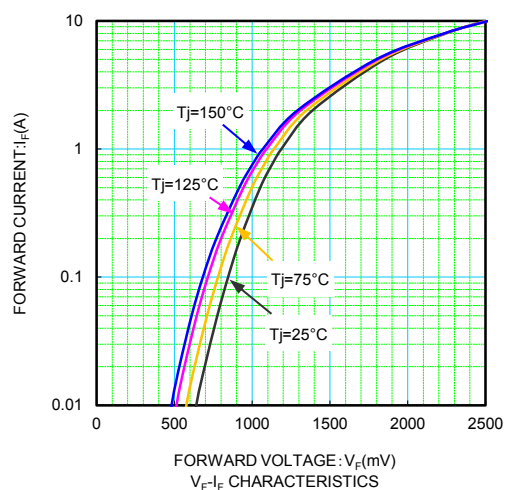


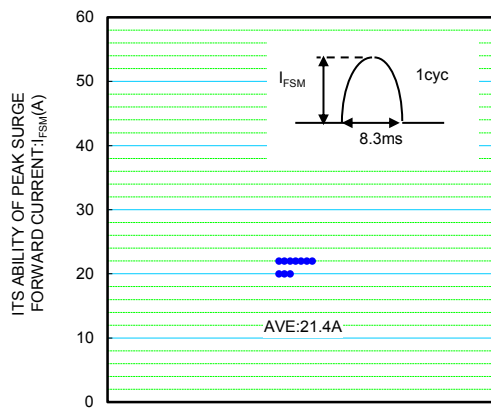
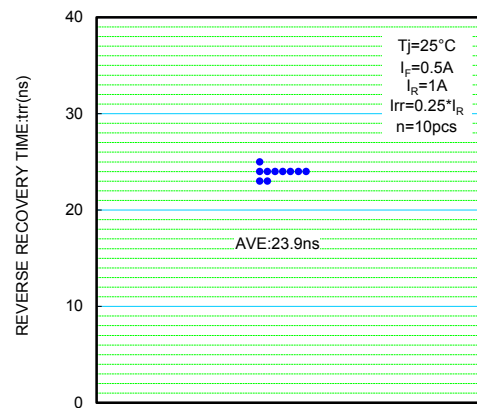
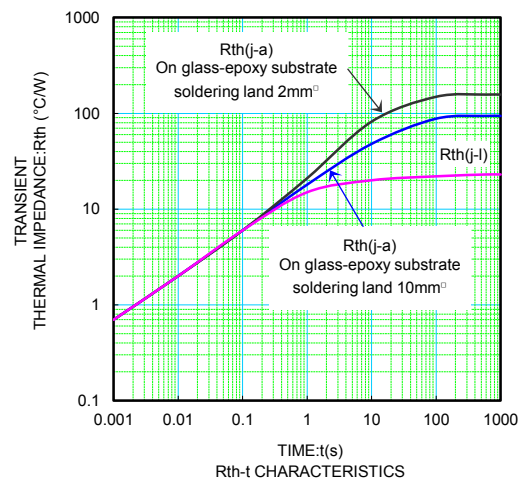
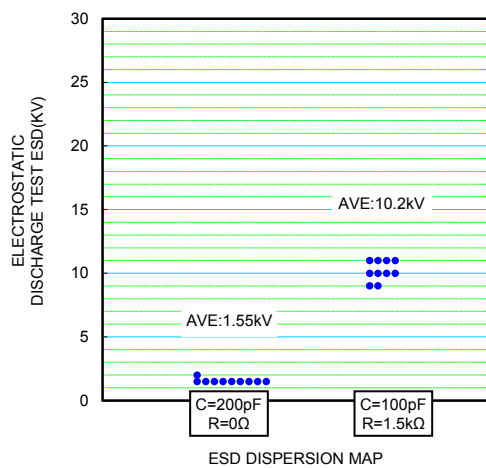
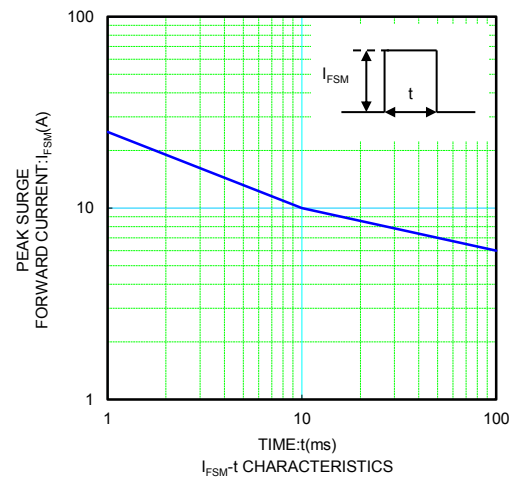
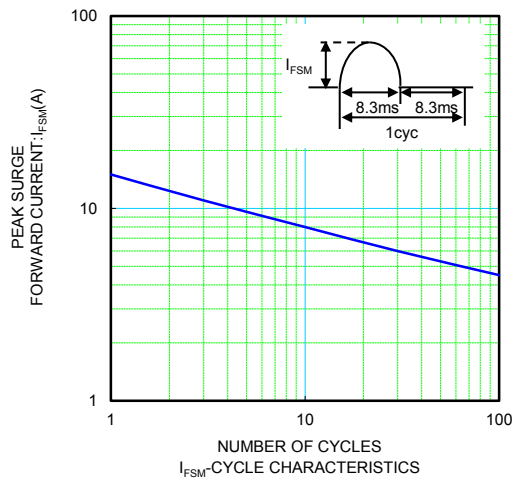
●Absolute maximum ratings (Tl=25°C)

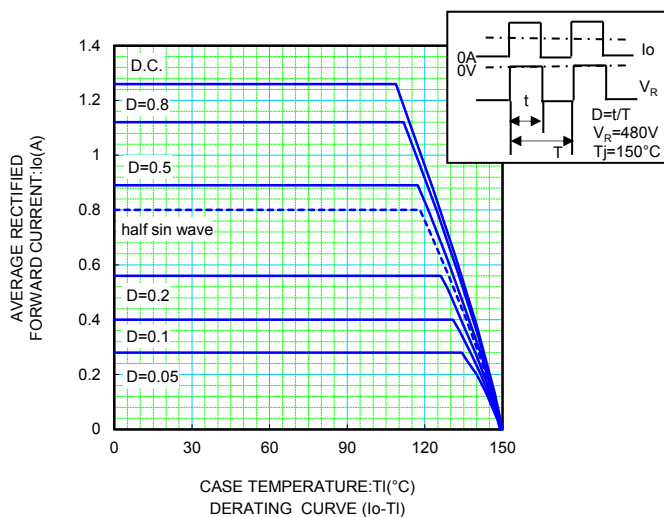
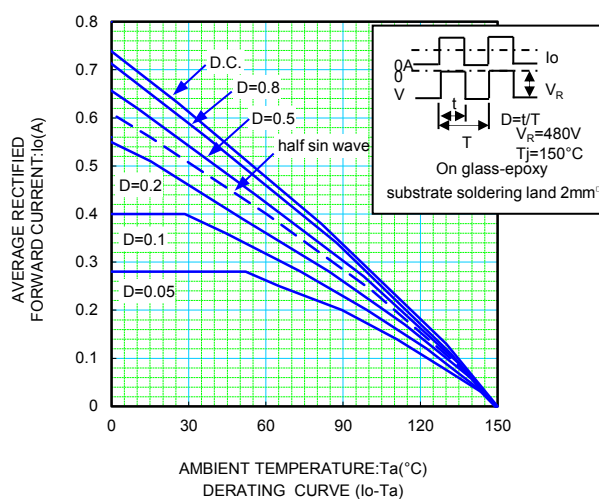
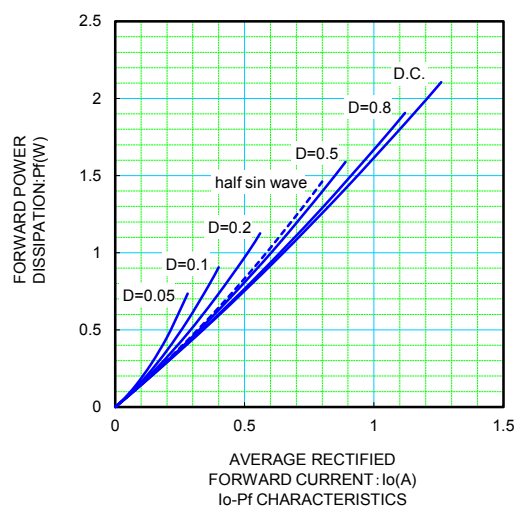
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V _{RM}	D≤0.5		600	V
Reverse voltage	V _R	Direct voltage		600	V
Average rectified forward current	I _o	Glass epoxy substrate mounted R-road, 60Hz half sin wave	Tl=115°C	0.8	A
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C		15	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	$I_F=0.8A$	—	1.15	1.45	V
Reverse current	I_R	$V_R=600V$	—	0.01	1	μA
Reverse recovery time	t_{rr}	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \times I_R$	—	25	35	ns
Thermal resistance	$R_{th(j-l)}$	junction to lead	—	—	23	$^{\circ}C/W$



 I_{FSM} DISPERSION MAP t_{rr} DISPERSION MAP



Notes

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