

Super Fast Recovery Diode

RF071L4S

●Series

Standard Fast Recovery

●Applications

General rectification

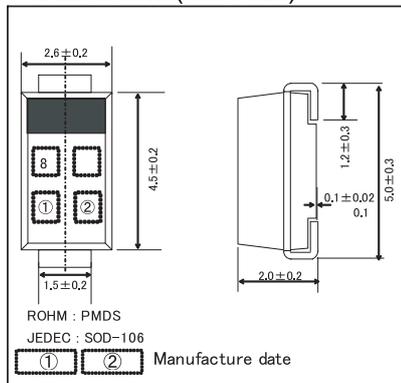
●Features

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

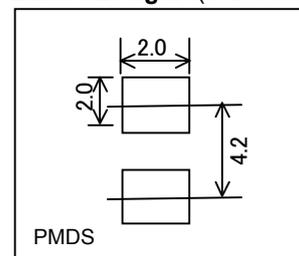
●Construction

Silicon epitaxial planer

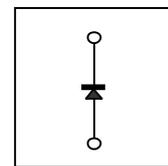
●Dimensions(Unit : mm)



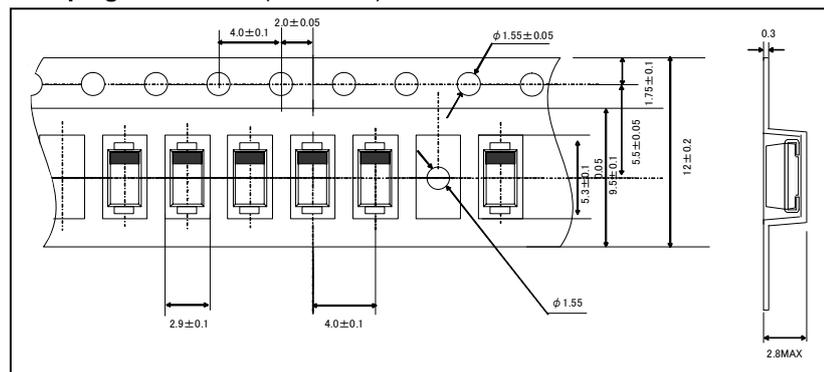
●Land size figure(Unit : mm)



●Structure



●Taping dimensions(Unit : mm)



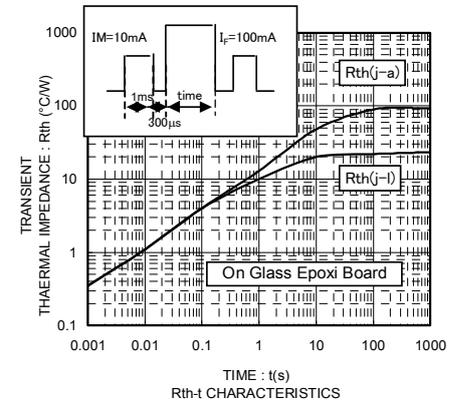
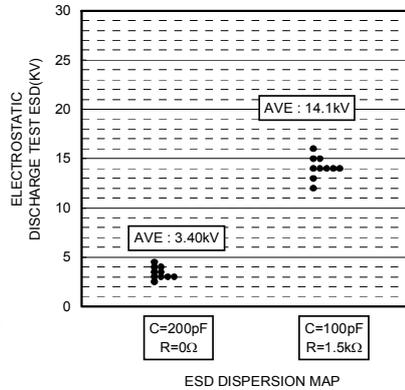
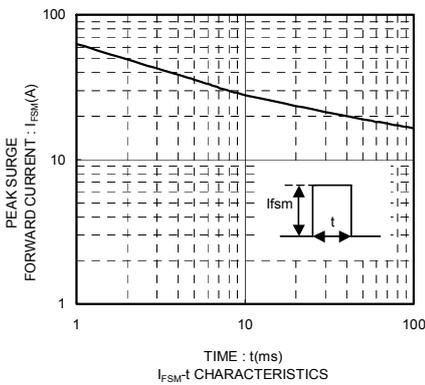
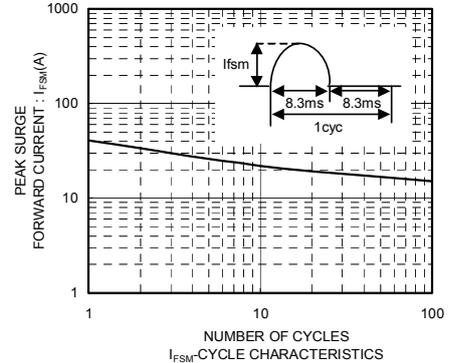
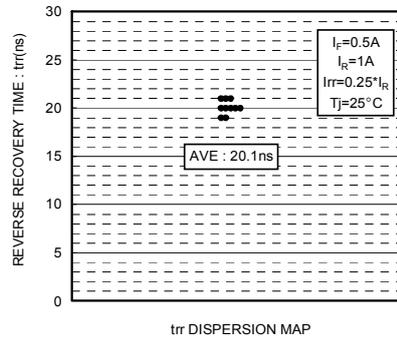
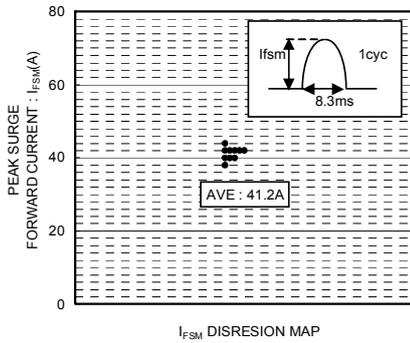
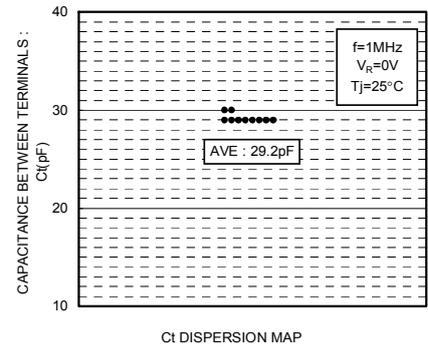
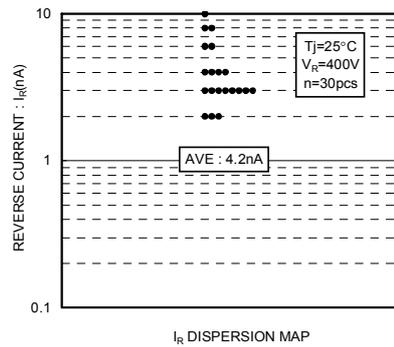
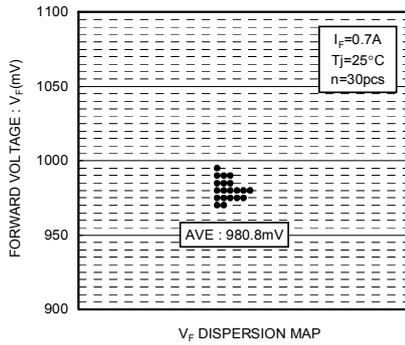
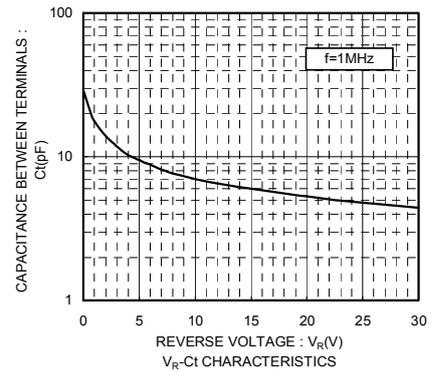
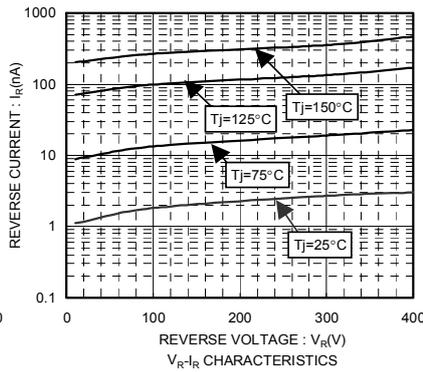
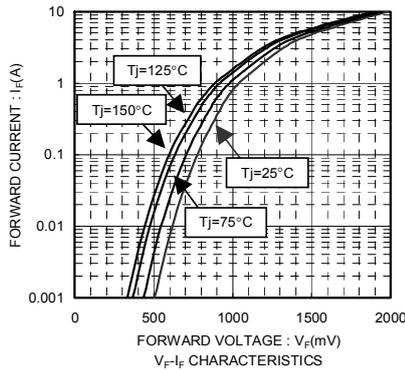
●Absolute maximum ratings (Tl=25°C)

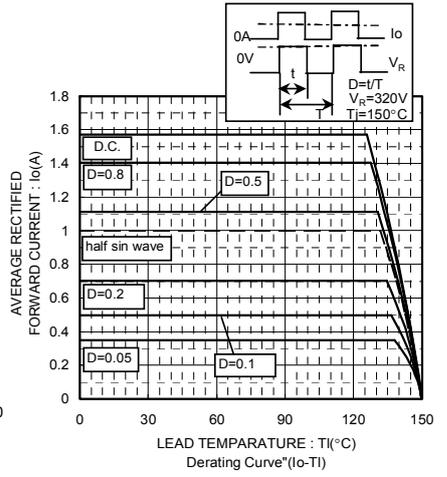
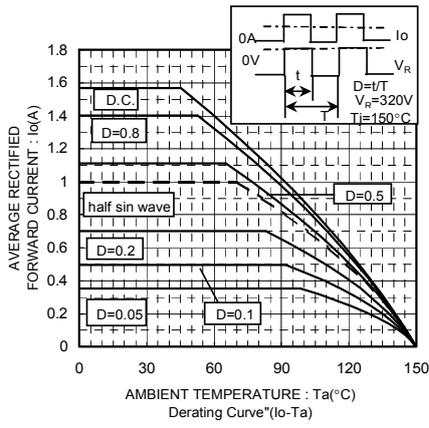
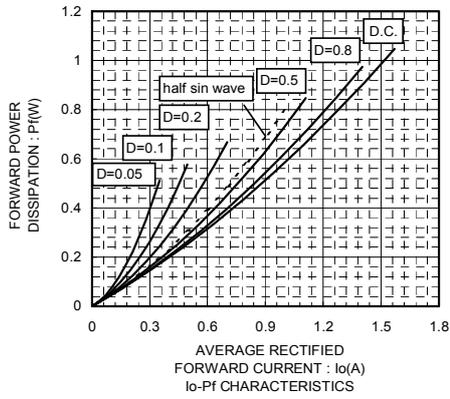
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	$D \geq 0.5$	400	V
Reverse voltage	V_R	Direct voltage	400	V
Average rectified forward current	I_o	Glass epoxy substrate mounted $T_l=120^\circ\text{C}$	1	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, $T_j=25^\circ\text{C}$	15	A
Junction temperature	T_j		150	°C
Storage temperature	T_{stg}		-55 to +150	°C

●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=0.7\text{A}$	-	1	1.25	V
Reverse current	I_R	$V_R=400\text{V}$	-	0.01	10	μA
Reverse recovery time	t_{rr}	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25 \times I_R$	-	20	25	ns
Thermal resistance	$R_{th(j-l)}$	junction to lead	-	-	23	°C/W

●Electrical characteristics curves





Notes

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