

# Super Fast Recovery Diode

## RF071L4S

●Series

Standard Fast Recovery

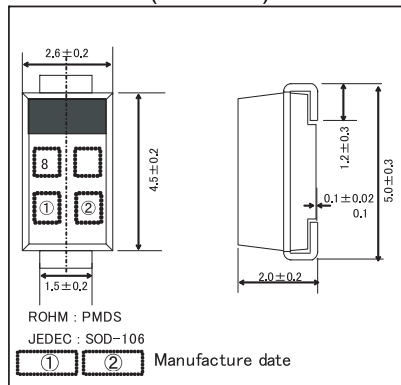
●Applications

General rectification

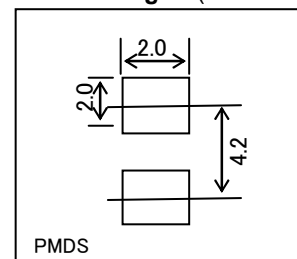
●Features

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

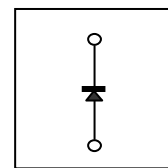
●Dimensions(Unit : mm)



●Land size figure(Unit : mm)



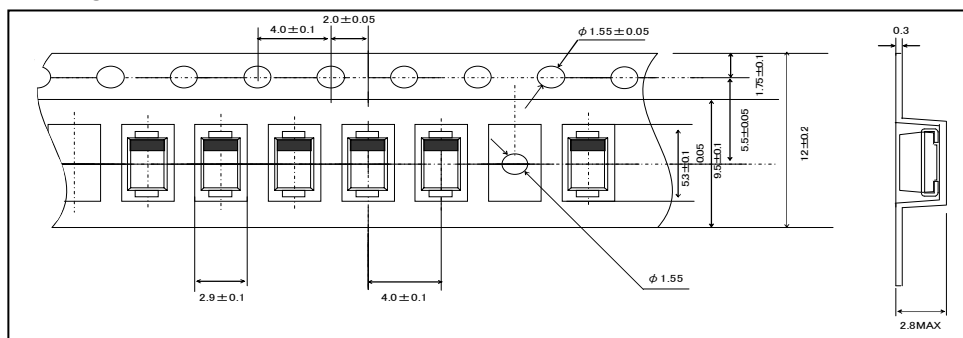
●Structure



●Construction

Silicon epitaxial planer

●Taping dimensions(Unit : mm)



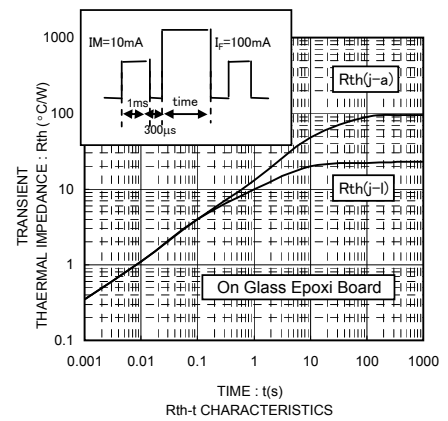
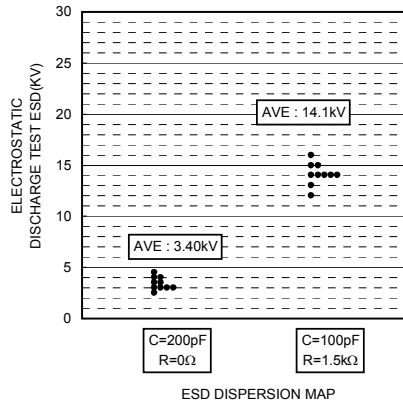
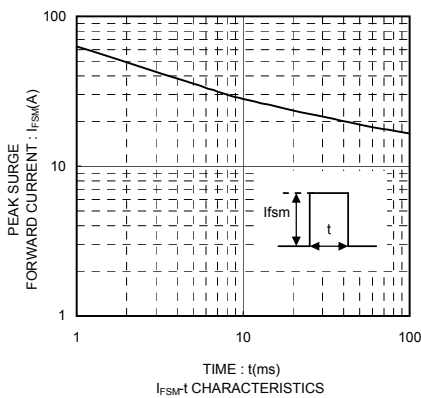
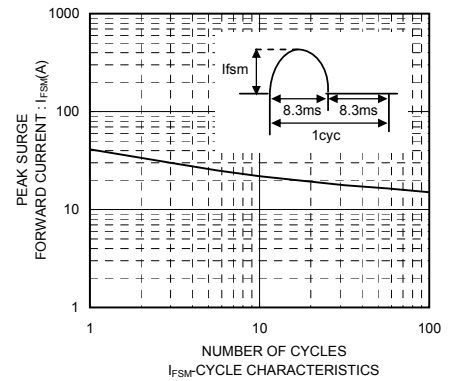
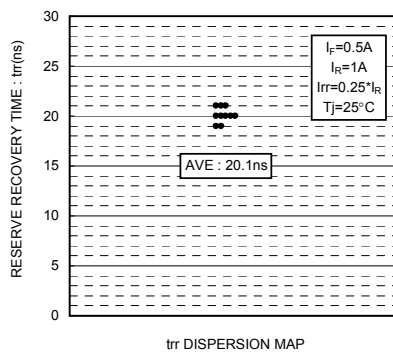
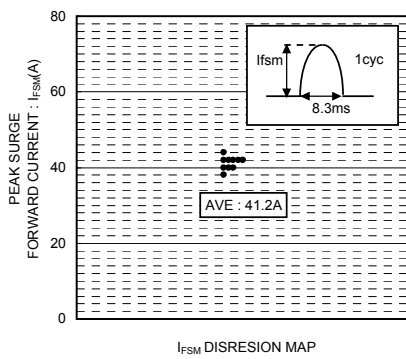
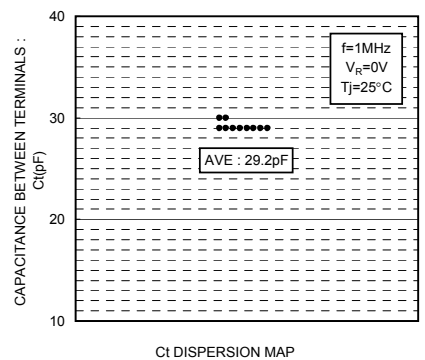
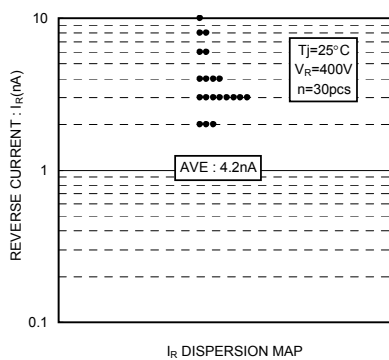
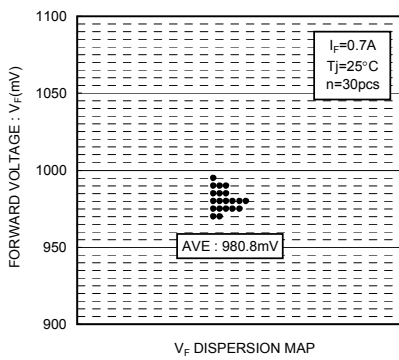
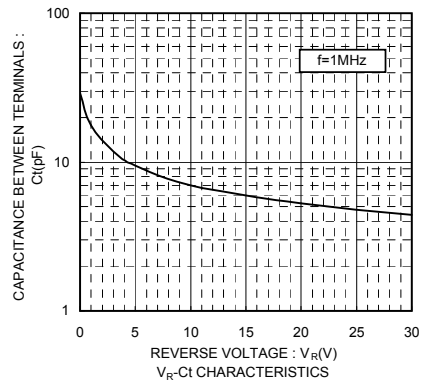
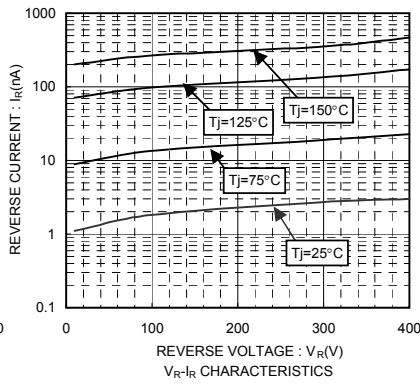
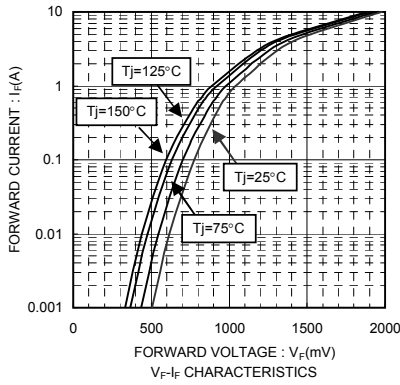
●Absolute maximum ratings (Tl=25°C)

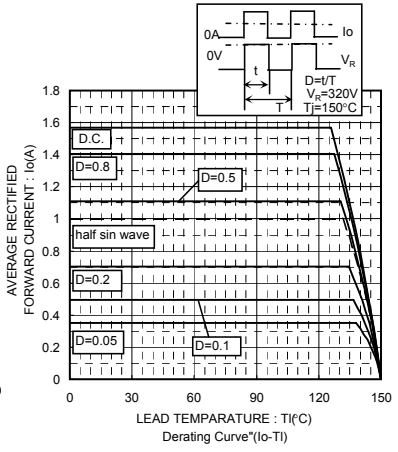
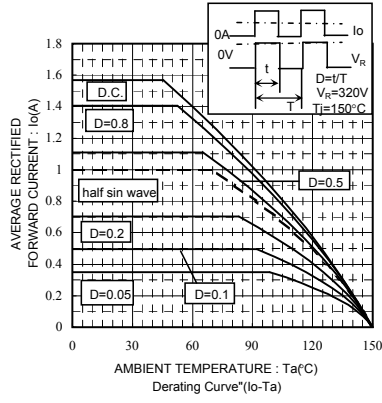
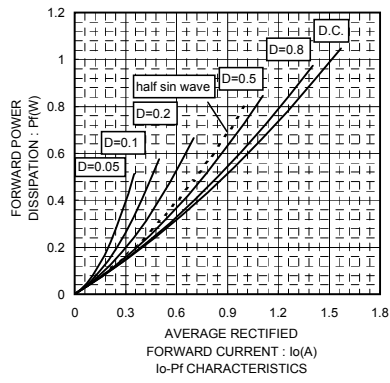
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	$D \geq 0.5$	400	V
Reverse voltage	$V_R$	Direct voltage	400	V
Average rectified forward current	$I_o$	Glass epoxy substrate mounted   $T_l=120^\circ C$	1	A
Forward current surge peak	$I_{FSM}$	60Hz half sin wave, Non-repetitive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

●Electrical characteristics (Tj=25°C)

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

●Electrical characteristics curves





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