Super Fast Recovery Diode

RF071L4S Datasheet

Series

Standard Fast Recovery

Application

General rectification

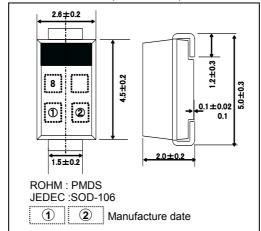
Features

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

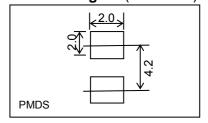
Construction

Silicon epitaxial planar

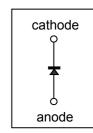
● **Dimensions** (Unit: mm)



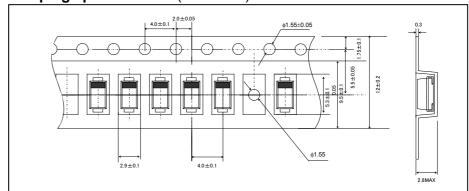
●Land size figure (Unit : mm)



Structure



● Taping specifications (Unit: mm)

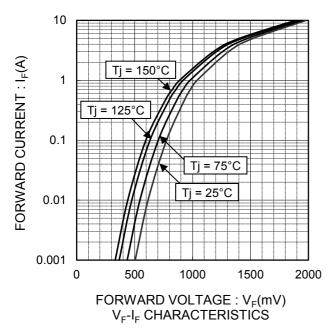


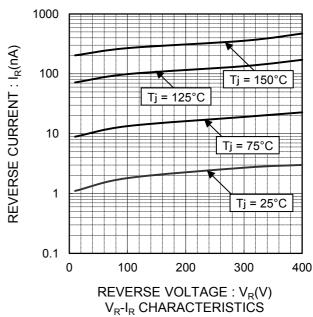
● Absolute maximum ratings (TI= 25°C)

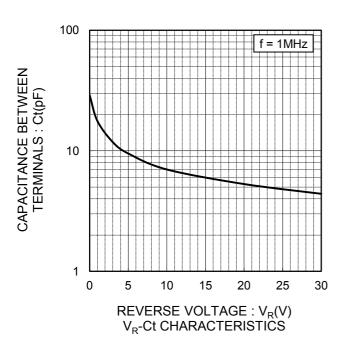
Parameter	Symbol	Limits	Unit	Conditions	
Repetitive peak reverse voltage	V_{RM}	400	V	D ≦0.5	
Reverse voltage	V_R	400	V	Direct voltage	
Average rectified forward current	lo	1	Α	Glass epoxy substrate mounted TI=120°C	
Forward current surge peak	I _{FSM}	15	Α	60Hz half sin wave, Non-repetitive	
				one cycle peak value, Tj=25°C	
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		

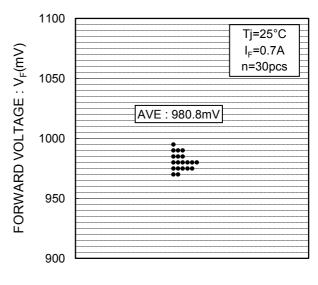
●Electrical characteristics (Tj = 25°C)

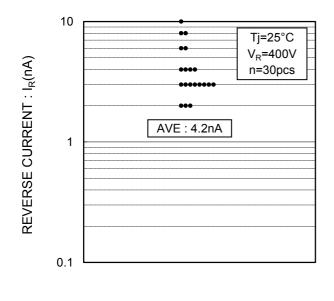
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	1	1.25	V	I _F =0.7A
Reverse current	I _R	-	0.01	10	μΑ	V _R =400V
Reverse recovery time	trr	-	20	25	ns	I _F =0.5A,I _R =1A,Irr=0.25×I _R
Thermal resistance	Rth(j-l)	ı	-	23	pF	junction to lead

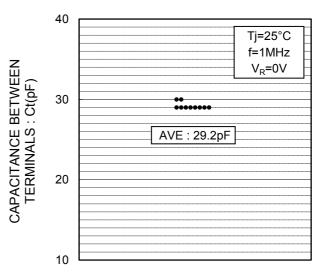






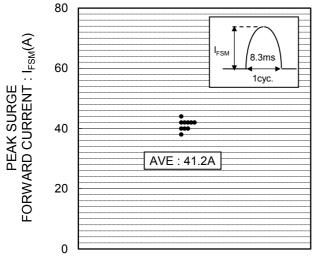




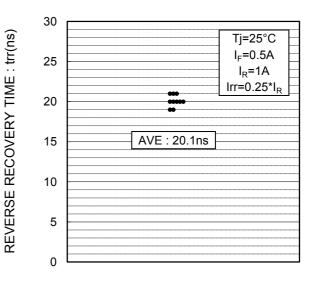


I_R DISPERSION MAP

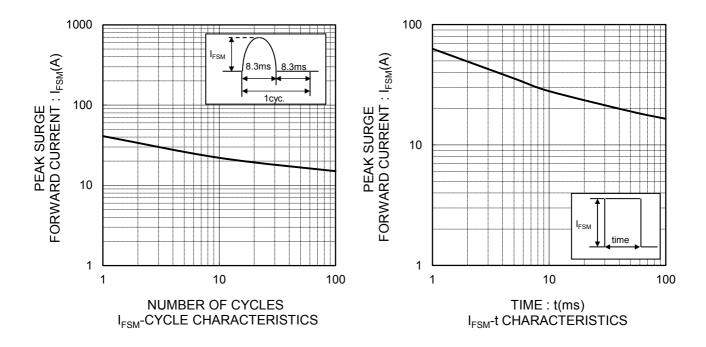
Ct DISPERSION MAP

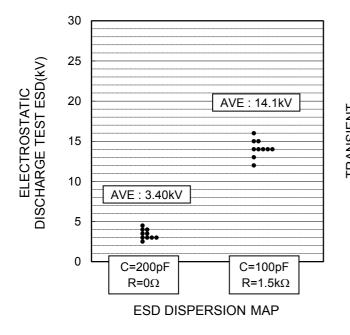


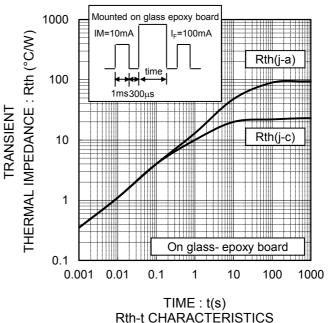
I_{FSM} DISPERSION MAP

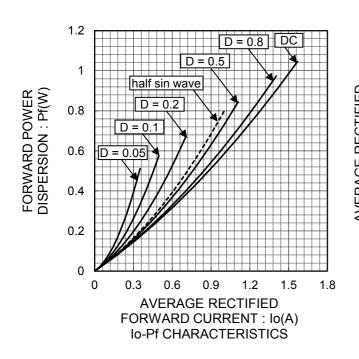


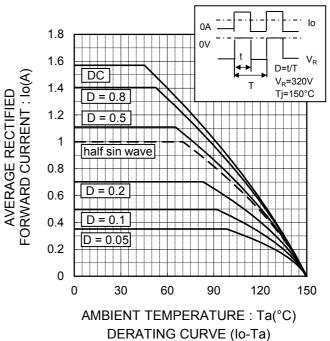
trr DISPERSION MAP

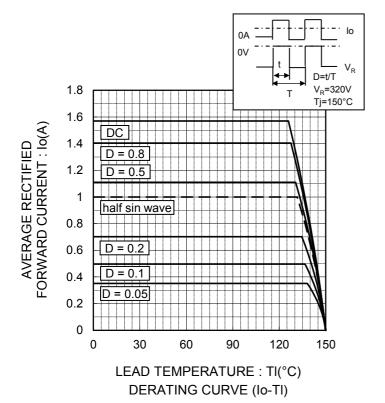












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