

Super Fast Recovery Diode

RF08L6S

●Series

Standard Fast Recovery

●Applications

General rectification

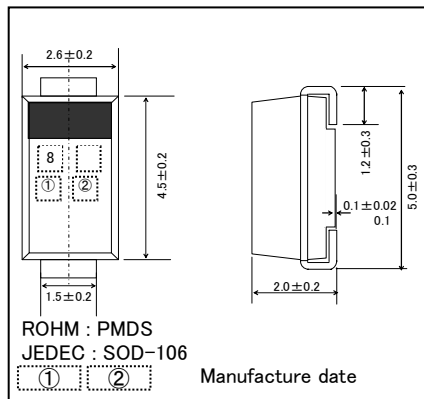
●Features

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

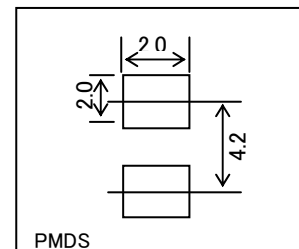
●Construction

Silicon epitaxial planar

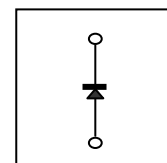
●Dimensions (Unit : mm)



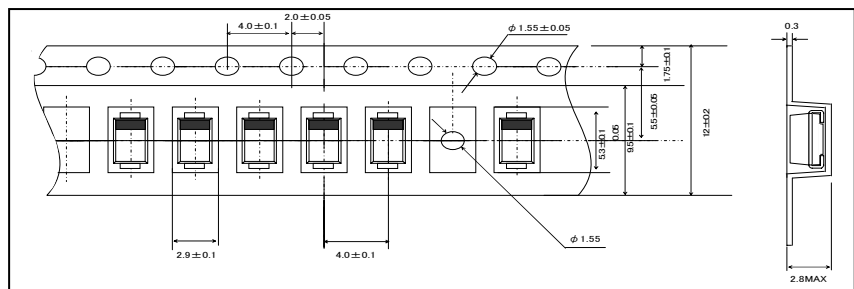
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

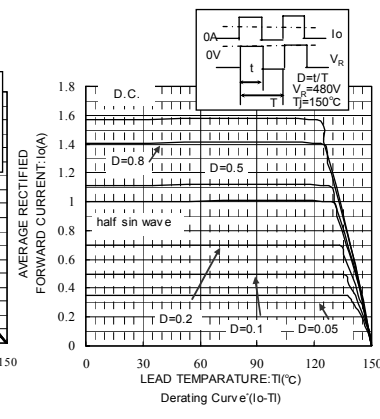
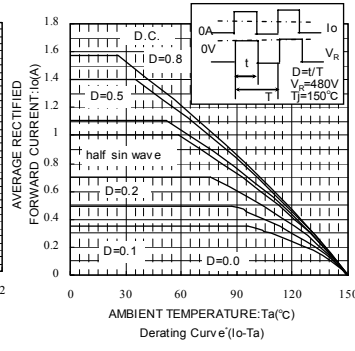
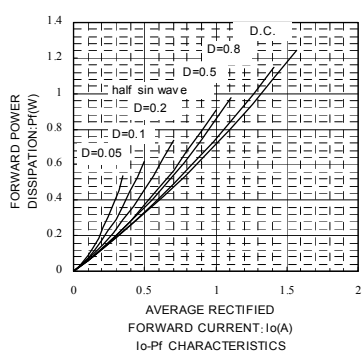
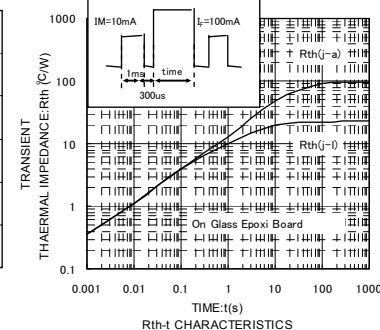
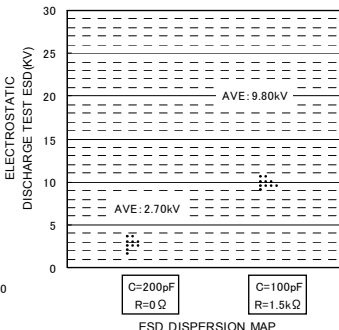
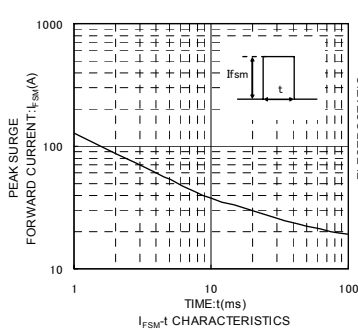
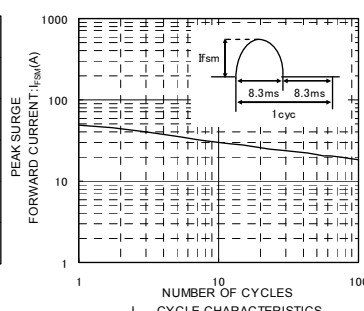
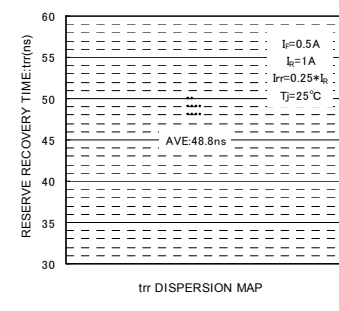
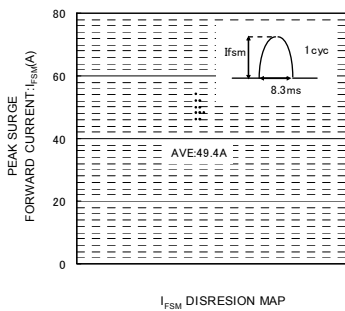
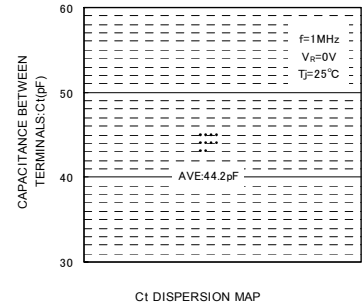
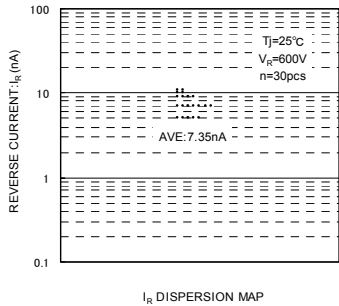
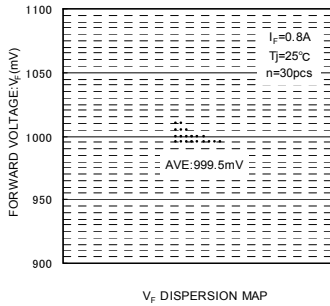
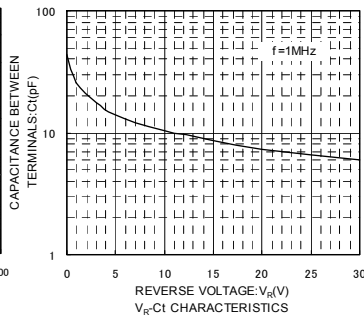
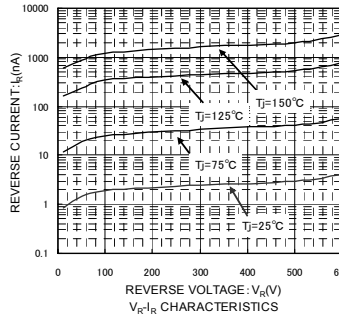
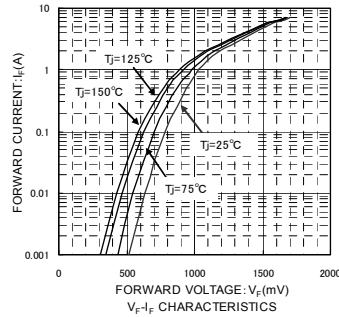


●Absolute maximum ratings (Tl=25°C)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak Reverse voltage	V_{RM}	$D \leq 0.5$	600	V
Reverse voltage	V_R	Direct voltage	600	V
Average rectified forward current	I_o	Glass epoxy substrate mounted	0.8	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, $T_j = 25^\circ C$	$T_a = 25^\circ C$ $T_l = 100^\circ C$	20 A
Junction temperature	T_j		150	$^\circ C$
Storage temperature	T_{stg}		-55to+150	$^\circ C$

●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F = 0.8A$	—	1	1.3	V
Reverse current	I_R	$V_R = 600V$	—	0.01	10	μA
Reverse recovery time	t_{rr}	$I_F = 0.5A, I_R = 1A, I_{rr} = 0.25 \times I_R$	—	50	70	ns
Thermal Resistance	$R_{th(j-l)}$	junction to lead	—	—	23	$^\circ C/W$



Notes

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