

# Super Fast Recovery Diode

**RF08L6S**

## ●Series

Standard Fast Recovery

## ●Applications

General rectification

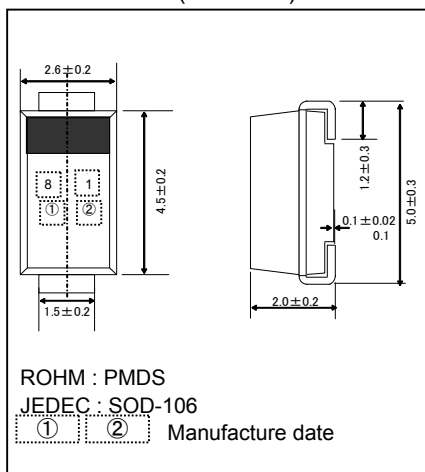
## ●Features

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

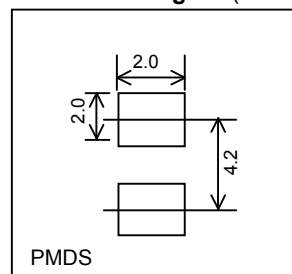
## ●Construction

Silicon epitaxial planar

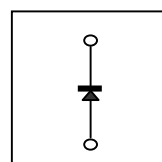
## ●Dimensions (Unit : mm)



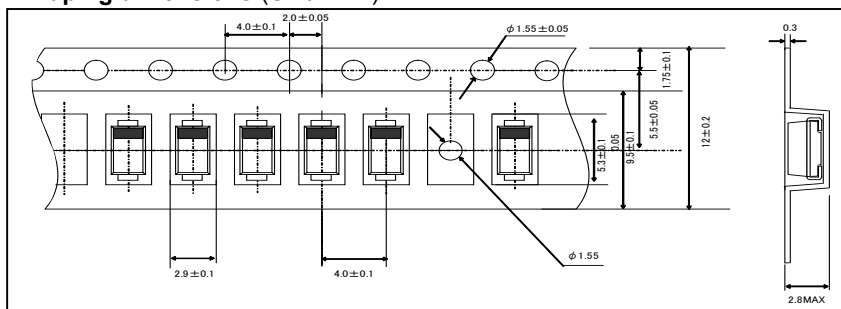
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping dimensions (Unit : mm)

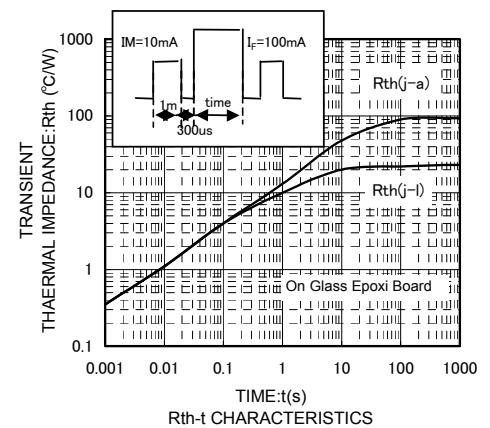
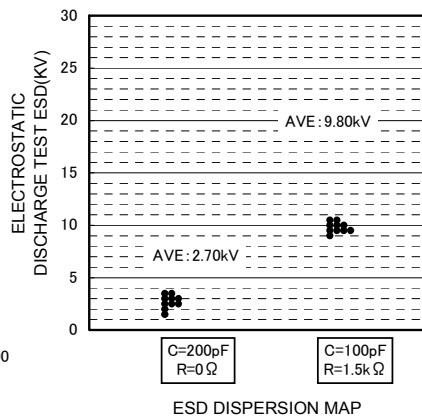
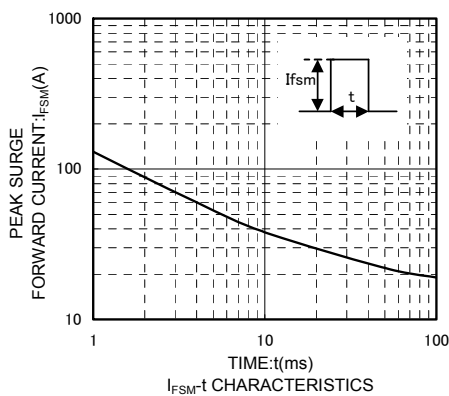
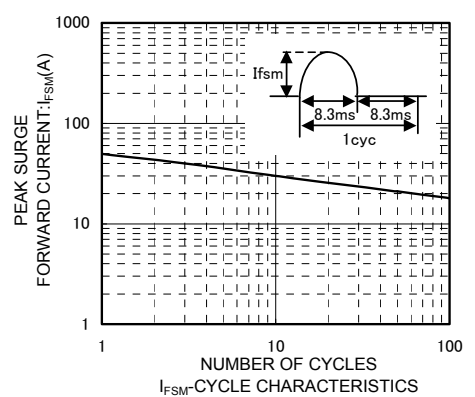
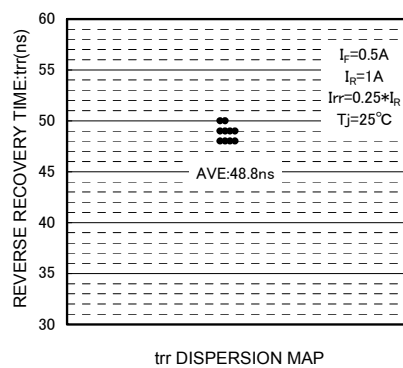
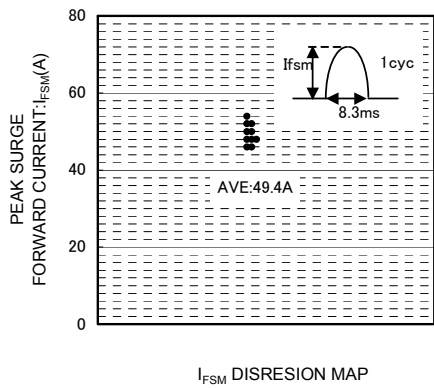
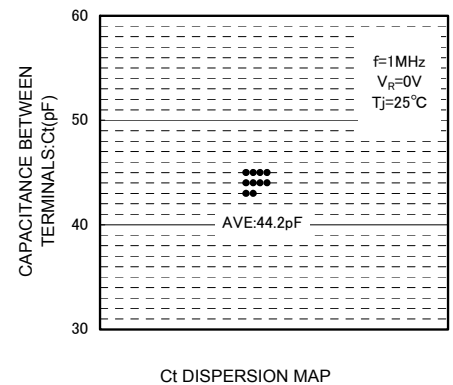
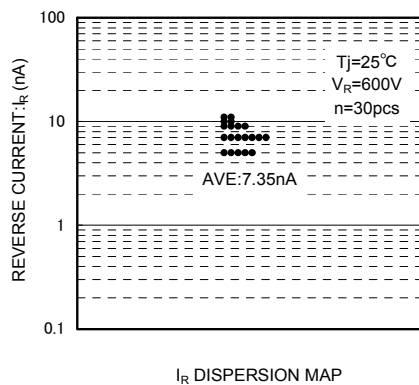
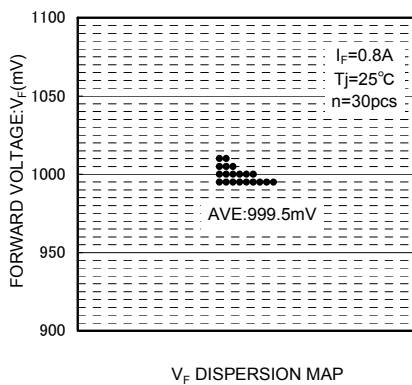
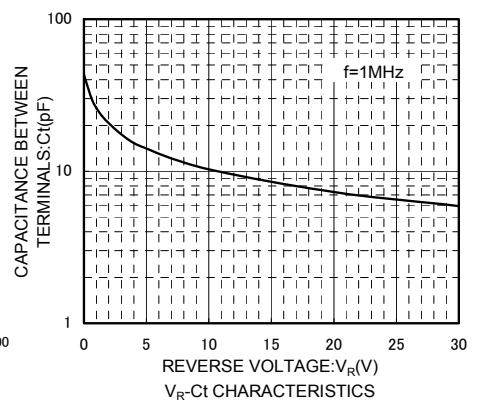
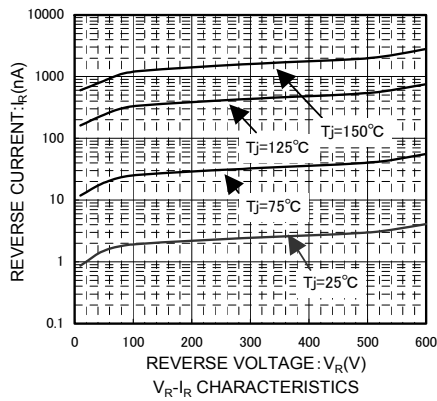
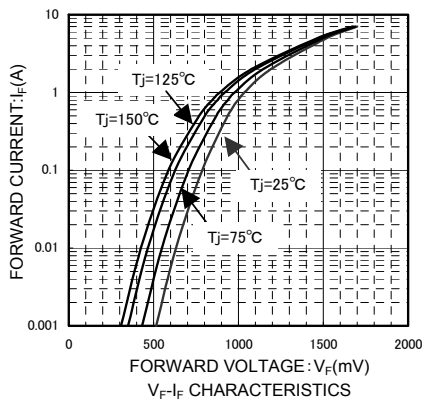


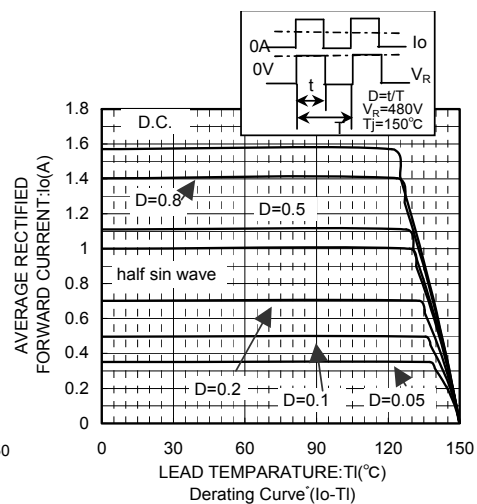
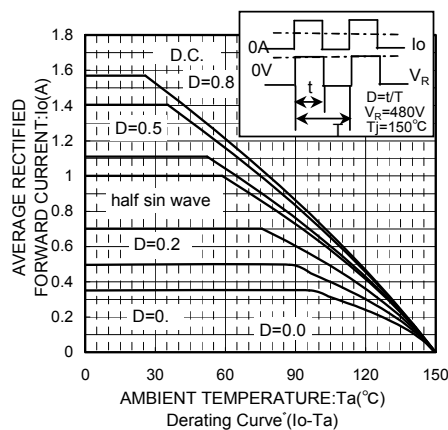
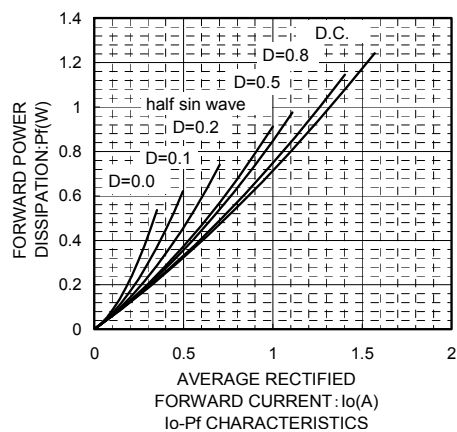
## ●Absolute maximum ratings (Tl=25°C)

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, $T_j = 25^\circ\text{C}$	20	A
Junction temperature	$T_j$	$T_a = 25^\circ\text{C}$ $T_l = 100^\circ\text{C}$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-55 to +150	$^\circ\text{C}$

## ●Electrical characteristic (Tj=25°C)

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





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