

Diodes

# Fast recovery Diode

## RF101L2S

●Applications

General rectification

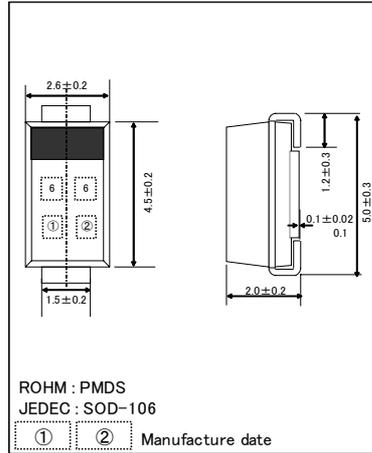
●Features

- 1) Small power mold type. (PMDS)
- 2) Ultra low  $V_F$
- 3) Very fast recovery
- 4) Low switching loss

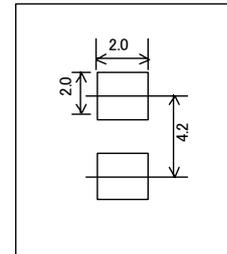
●Construction

Silicon epitaxial planar

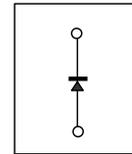
● External dimensions (Unit : mm)



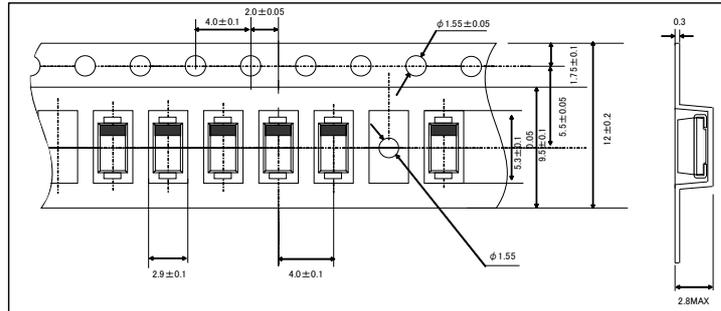
● Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Rverse voltage (repetitive peak)	$V_{RM}$	200	V
Reverse voltage (DC)	$V_R$	200	V
Average rectified forward current (*1)	$I_o$	1	A
Forward peak surge current (60Hz · 1cyc.)	$I_{FSM}$	20	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

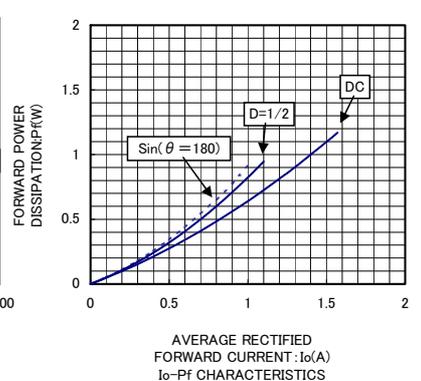
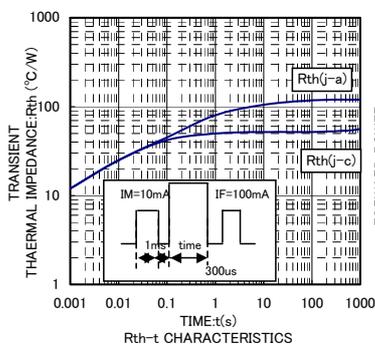
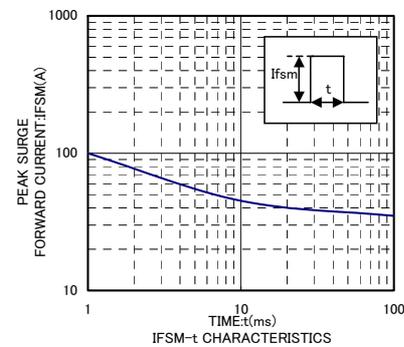
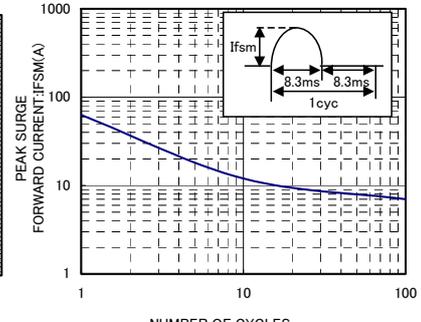
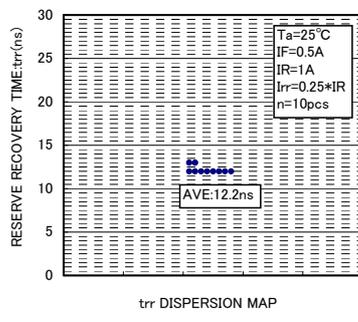
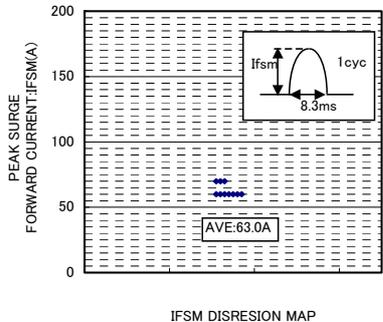
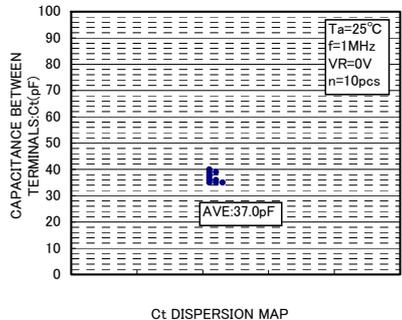
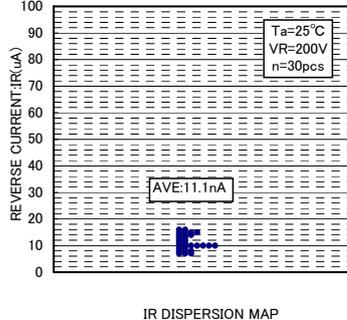
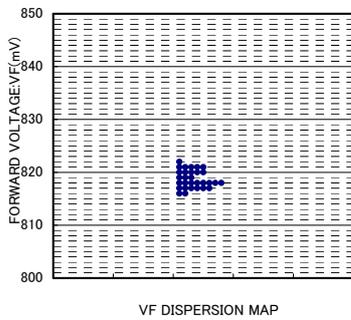
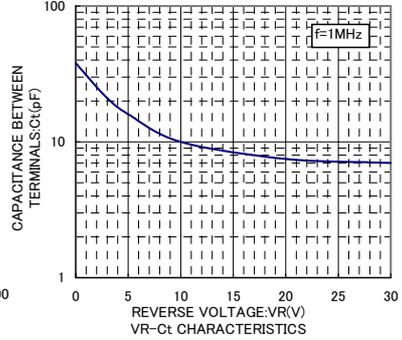
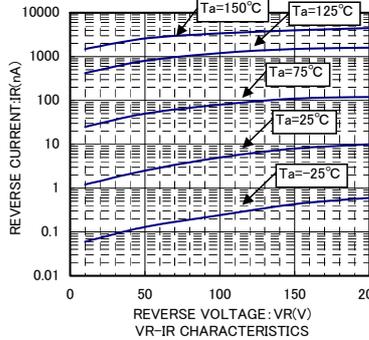
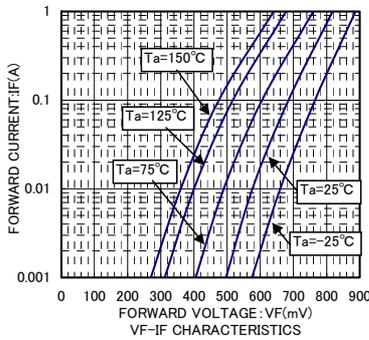
(\*1) $T_c=90^{\circ}C_{max}$  Mounted on epoxy board. 180°Half sine wave

●Electrical characteristics (Ta=25°C)

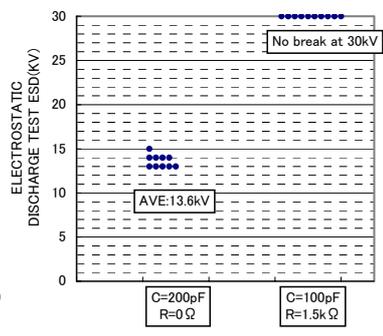
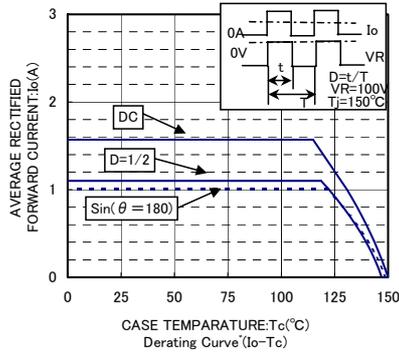
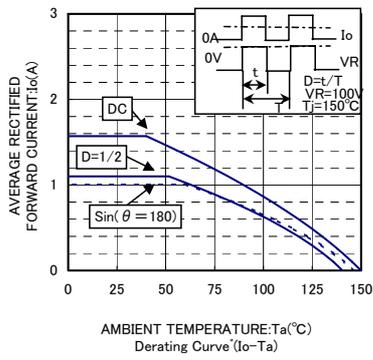
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.815	0.87	V	$I_F=1.0A$
Reverse current	$I_R$	-	0.01	10	$\mu A$	$V_R=200V$
Reverse recovery time	$t_{rr}$	-	12	25	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \cdot I_R$

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●Electrical characteristic curves (Ta=25°C)



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ESD DISPERSION MAP

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