

# Fast recovery diode

## RF101L4S

### ● Applications

General rectification

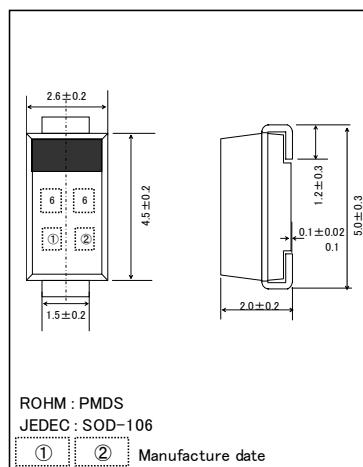
### ● Features

- 1) Small power mold type (PMDS)
- 2) Ultra low VF
- 3) Ultra high switching speed
- 4) Low switching loss

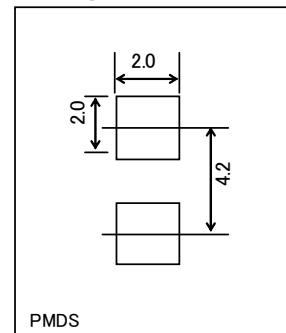
### ● Construction

Silicon epitaxial planar

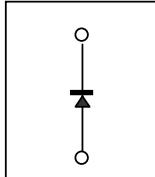
### ● Dimensions (Unit : mm)



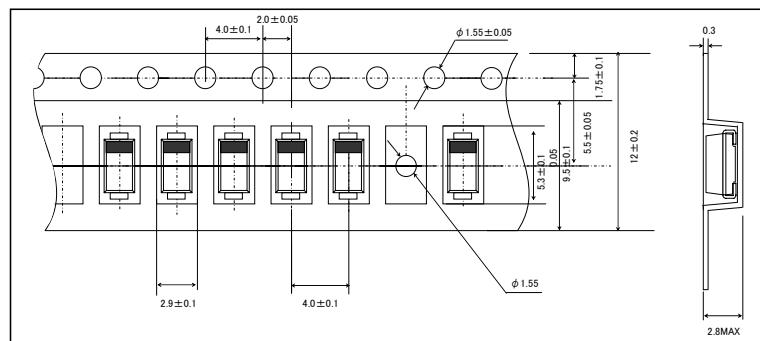
### ● Land size figure (Unit : mm)



### ● Structure



### ● Taping dimensions (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V <sub>RM</sub>	400	V
Reverse voltage (DC)	V <sub>R</sub>	400	V
Average rectified forward current	I <sub>o</sub>	1	A
Forward current surge peak (60Hz·1cyc)	I <sub>FSM</sub>	20	A
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

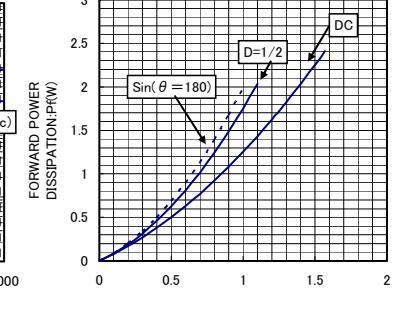
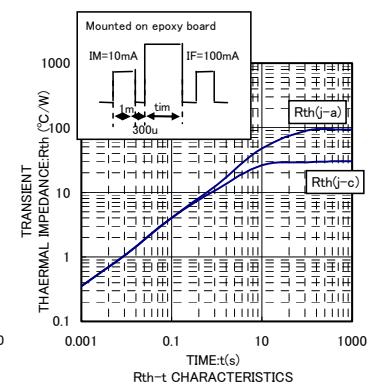
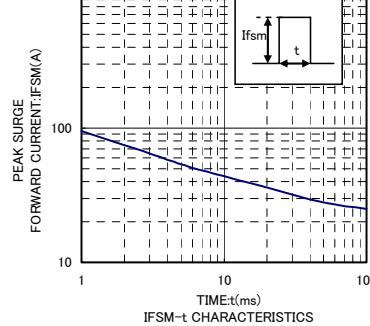
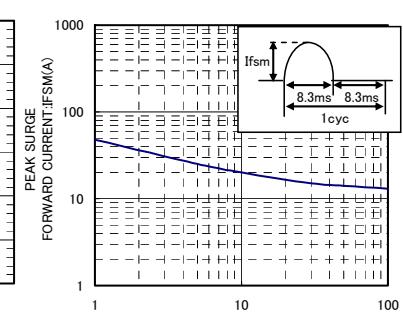
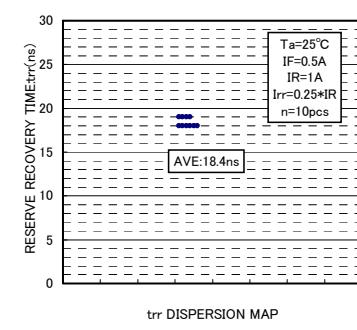
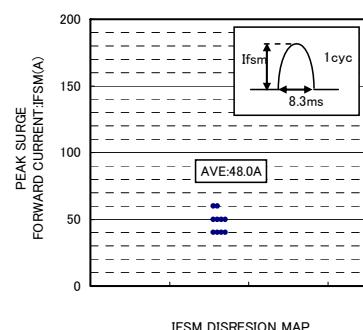
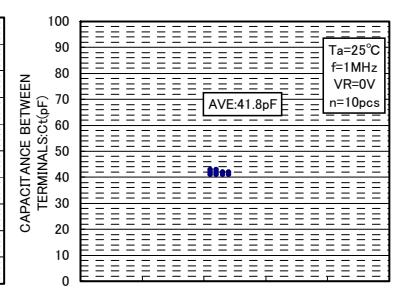
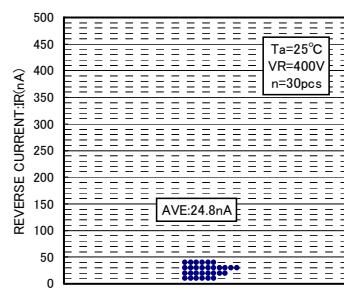
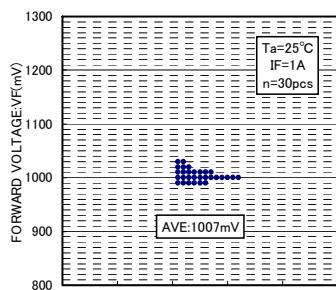
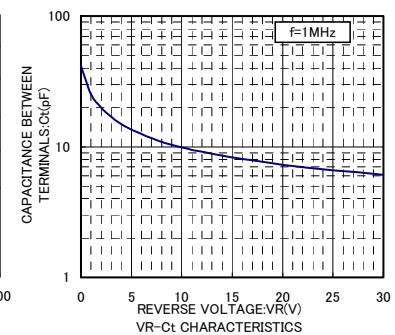
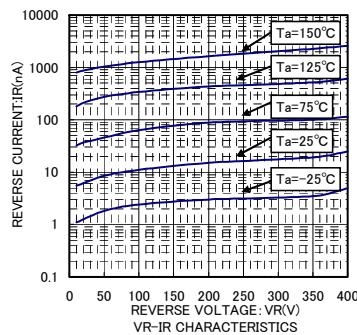
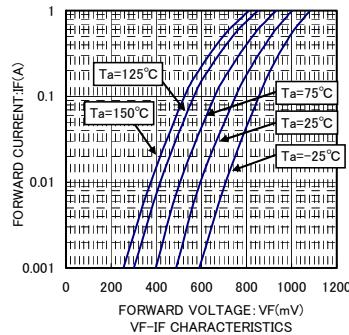
(\*1)Mounting on epoxy board. 180°Half sine wave

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

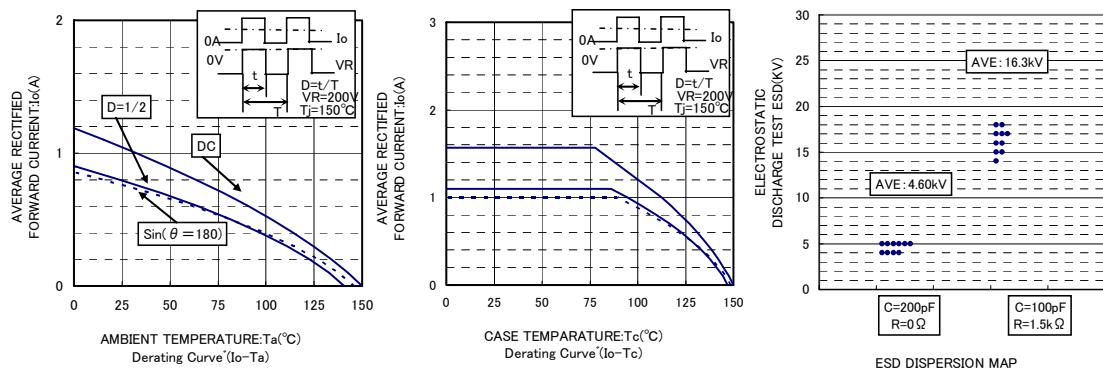
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	1.25	V	I <sub>F</sub> =1.0A
Reverse current	I <sub>R</sub>	-	-	10	μA	V <sub>R</sub> =400V
Reverse recovery time	trr	-	-	25	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,I <sub>rr</sub> =0.25*I <sub>R</sub>

## Diodes

## ● Electrical characteristic curves



## Diodes



## Appendix

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