

Fast Recovery Diode

RF101L4S

●Applications

General rectification

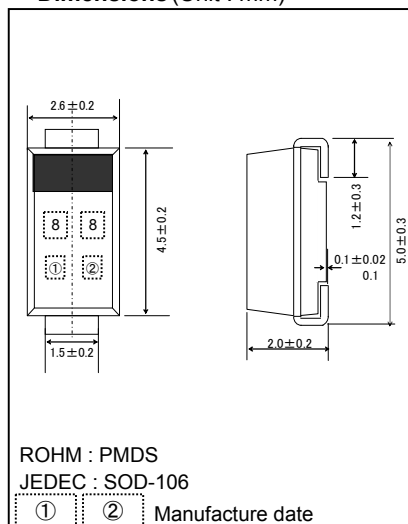
●Features

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

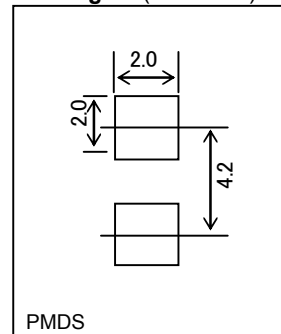
●Construction

Silicon epitaxial planar

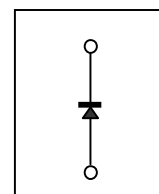
●Dimensions (Unit : mm)



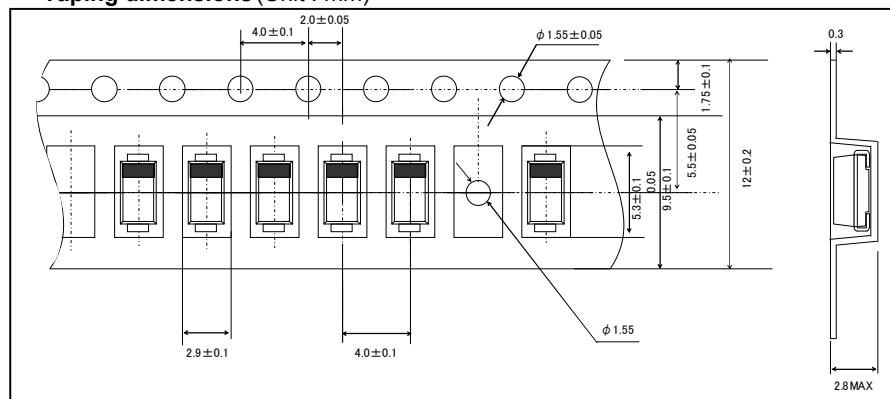
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

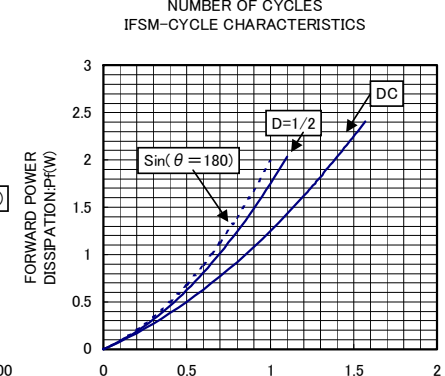
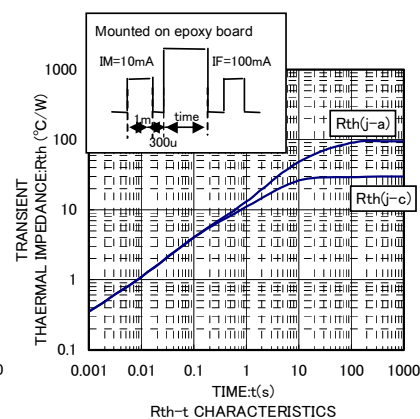
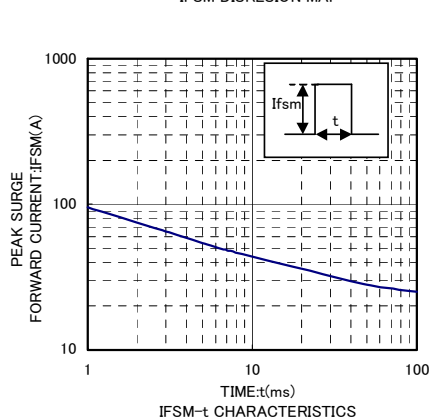
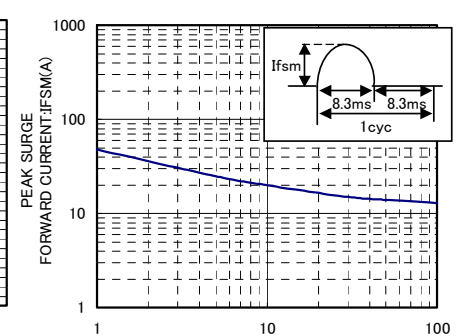
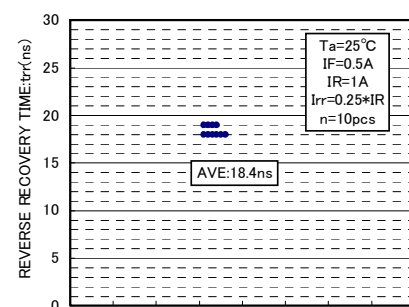
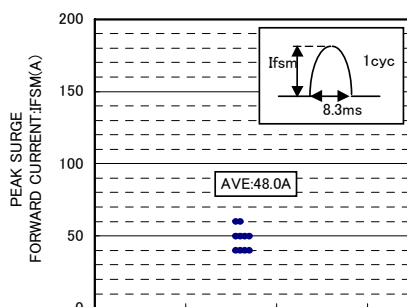
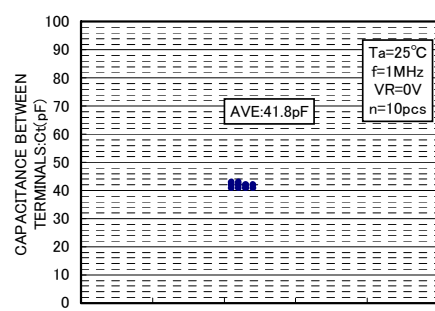
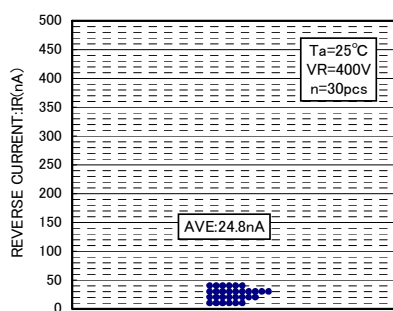
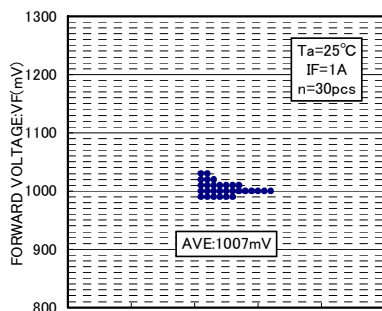
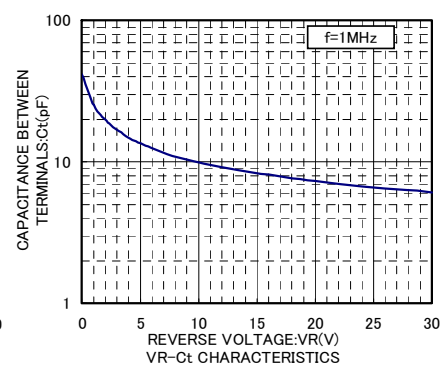
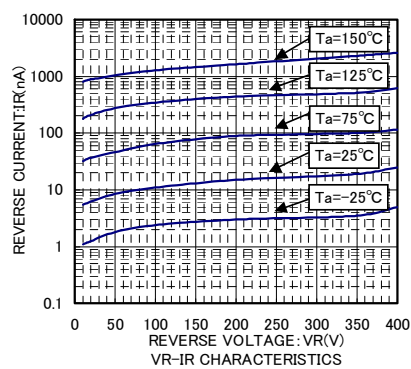
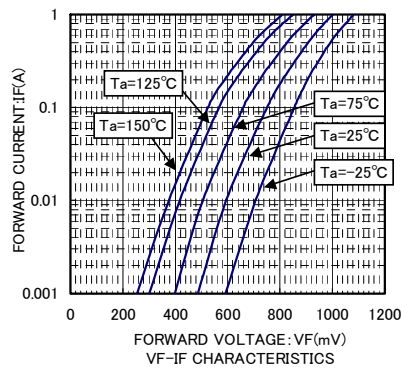
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	400	V
Reverse voltage (DC)	V_R	400	V
Average rectified forward current (*1)	I_o	1	A
Forward current surge peak (60Hz* 1cyc)	I_{FSM}	25	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

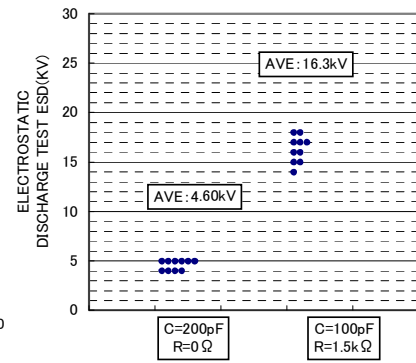
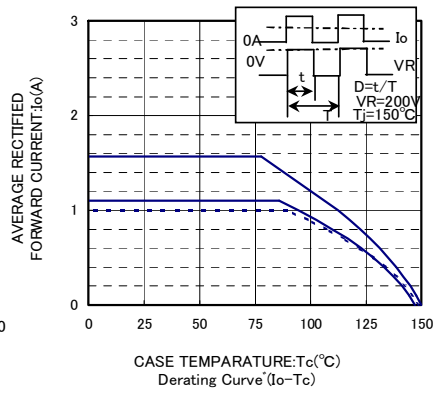
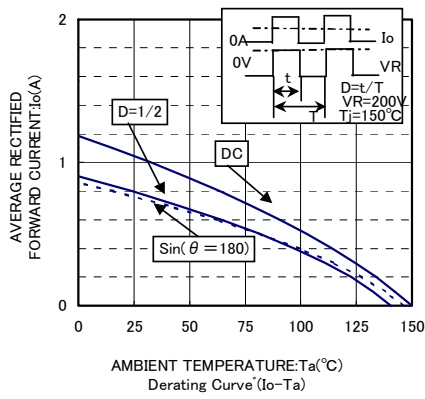
(*1) Mounted on epoxy board. 180° Half sine wave

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.25	V	$I_F = 1.0A$
Reverse current	I_R	-	-	10	μA	$V_R = 400V$
Reverse recovery time	t_{rr}	-	-	25	ns	$I_F = 0.5A, I_R = 1A, I_{rr} = 0.25 * I_R$

●Electrical characteristics curves





ESD DISPERSION MAP

Notes

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