

# Fast Recovery Diode

## RF101L4S

●Applications

General rectification

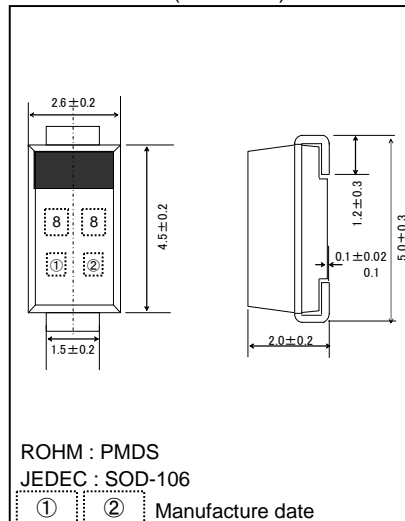
●Features

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

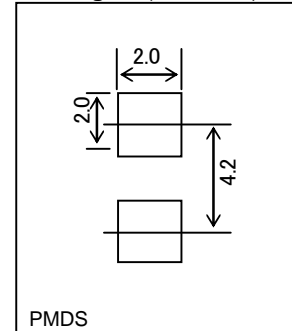
●Construction

Silicon epitaxial planar

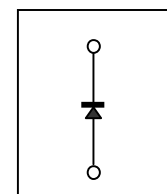
●Dimensions (Unit : mm)



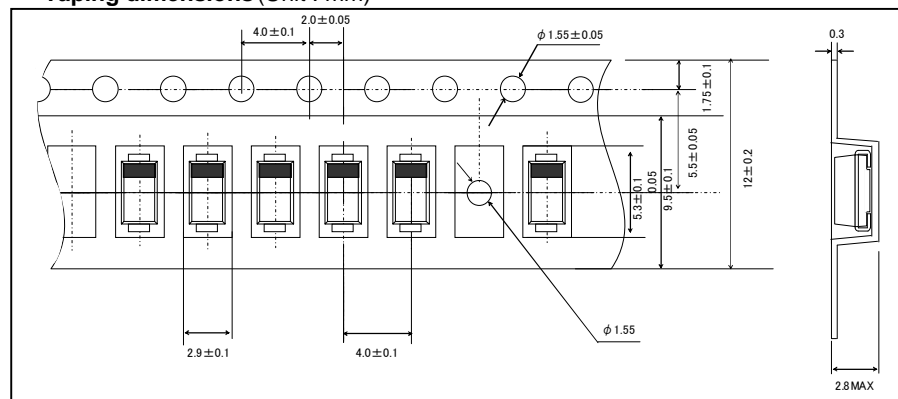
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

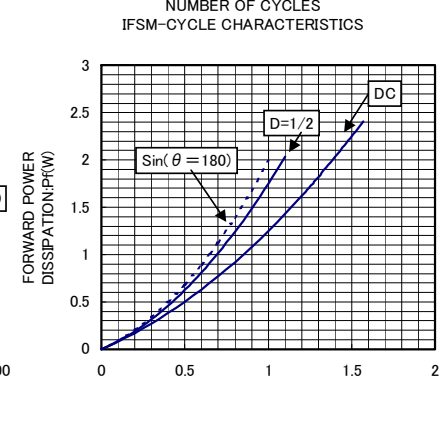
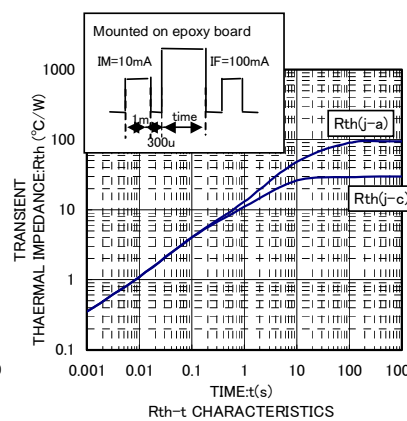
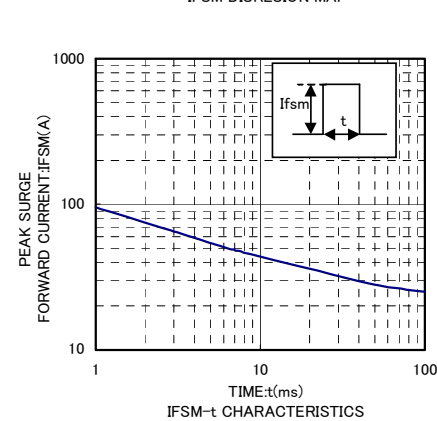
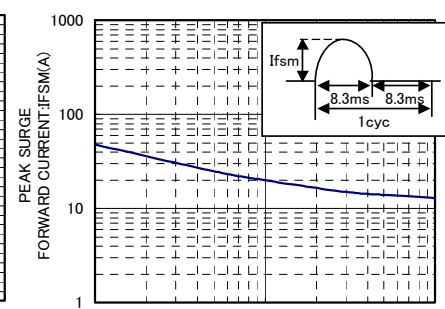
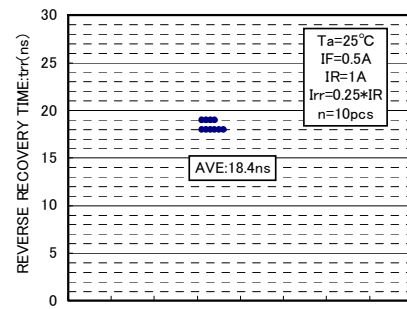
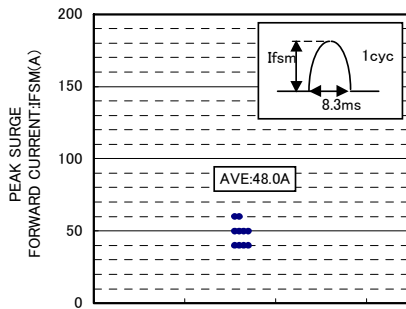
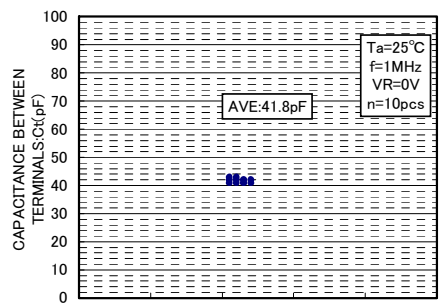
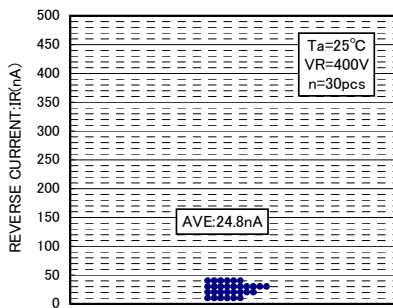
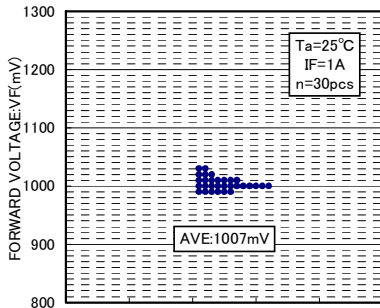
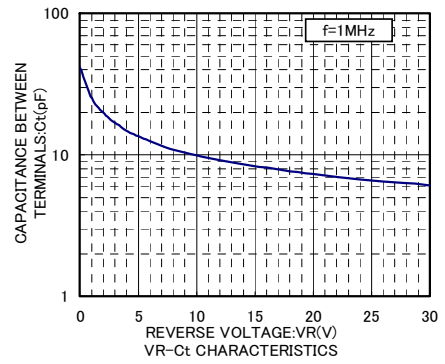
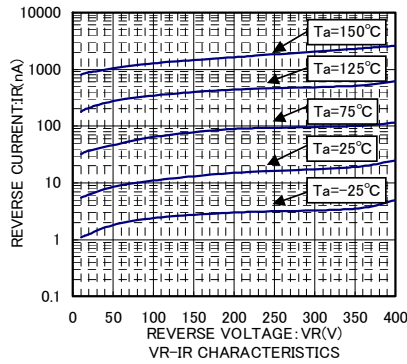
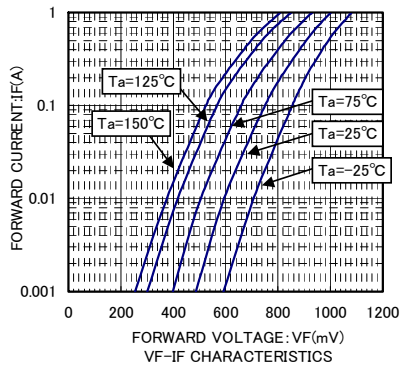
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	400	V
Reverse voltage (DC)	$V_R$	400	V
Average rectified forward current (*1)	$I_o$	1	A
Forward current surge peak (60Hz* 1cyc)	$I_{FSM}$	25	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

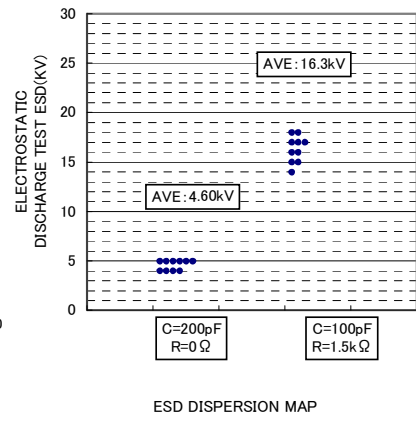
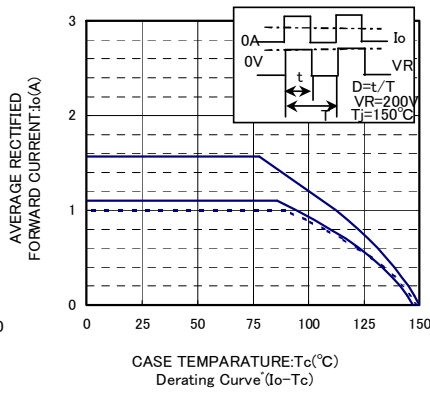
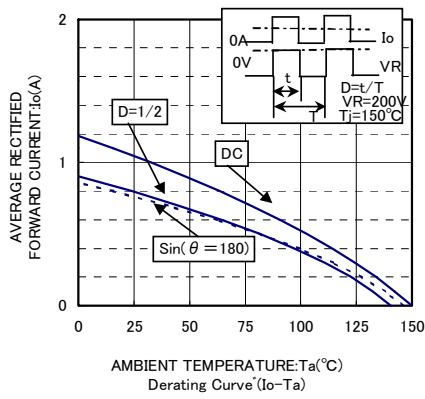
(\*1) Mounted on epoxy board. 180°Half sine wave

●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





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