

# Super Fast Recovery Diode

## RF2L6S

**●Series**

Standard Fast Recovery

**●Applications**

General rectification

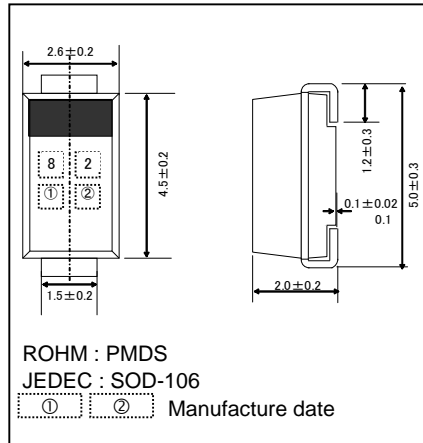
**●Features**

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

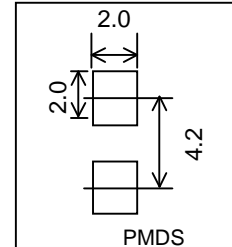
**●Construction**

Silicon epitaxial planar

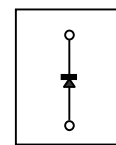
**●Dimensions (Unit : mm)**



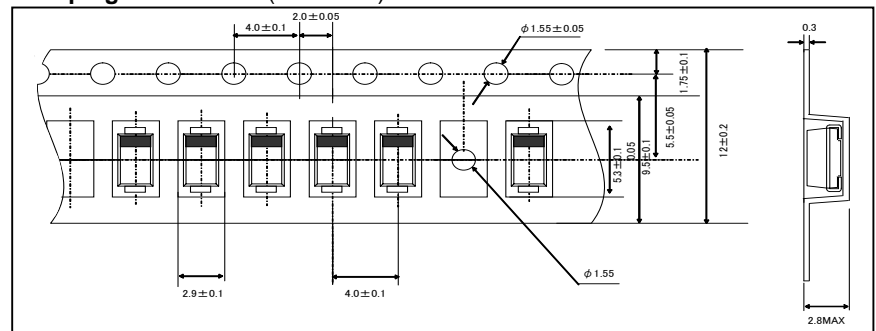
**●Land size figure (Unit : mm)**



**●Structure**



**●Taping dimensions (Unit : mm)**



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

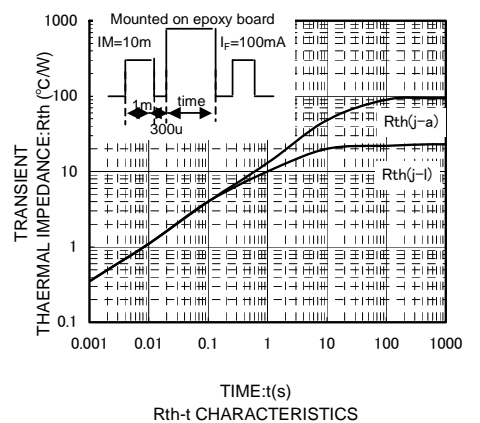
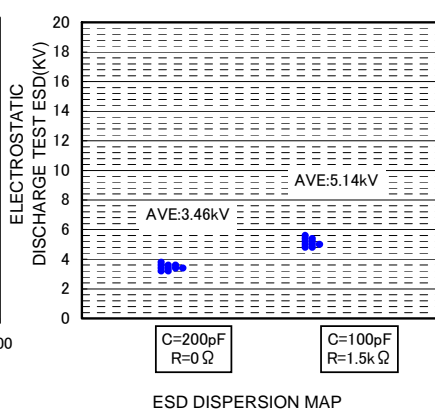
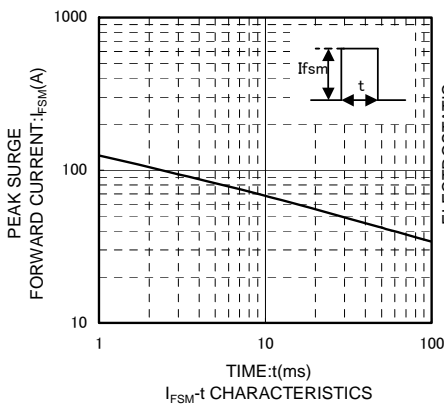
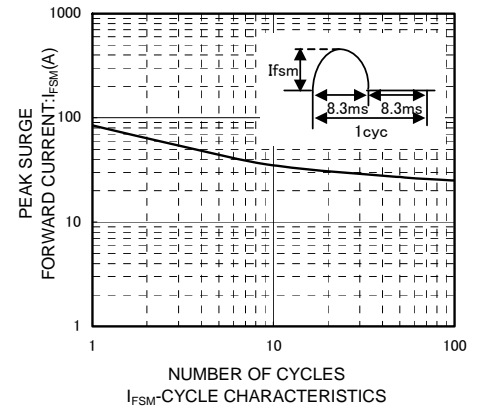
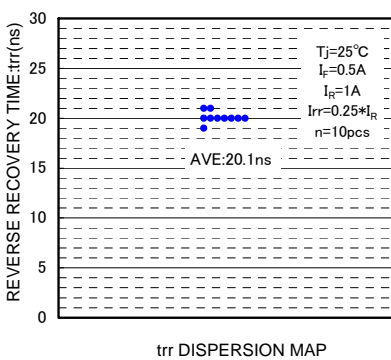
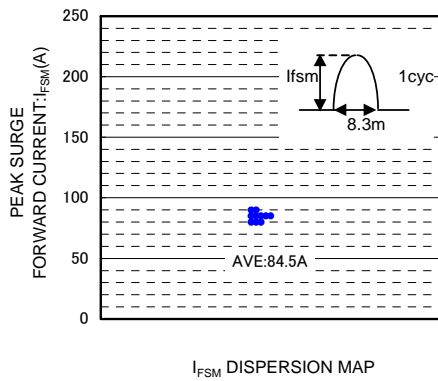
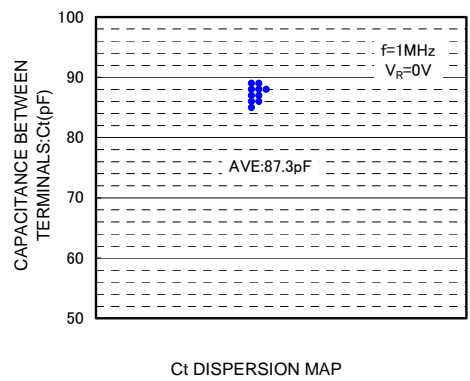
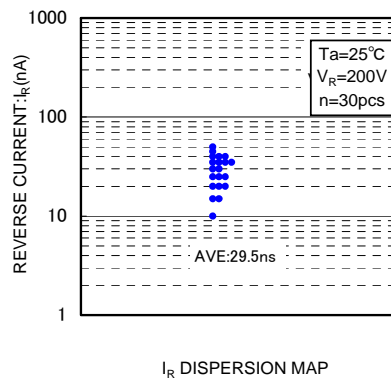
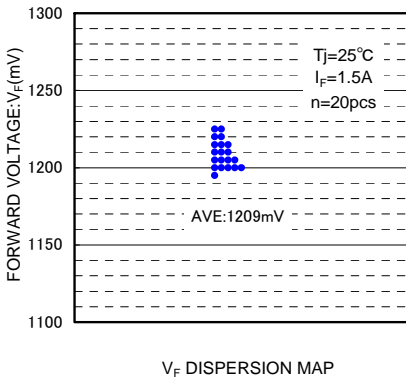
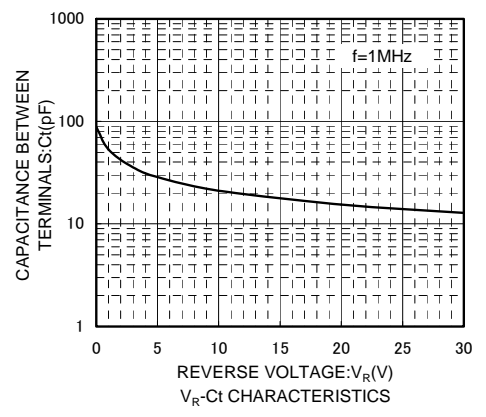
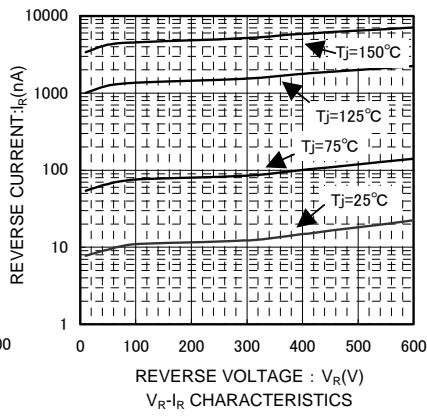
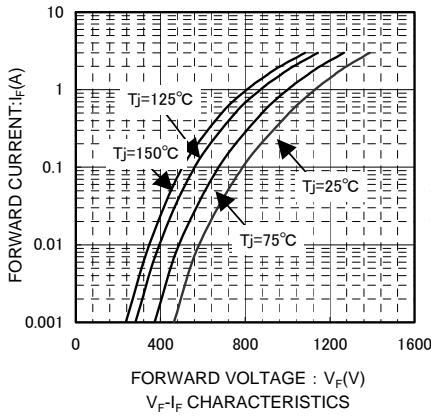
Parameter	Symbol	Limits	Unit
Repetitive peak Reverse voltage	$V_{RM}$	600	V
Reverse voltage	$V_R$	600	V
Average rectified forward current(*1)	$I_o$	1.5	A
Forward current surge peak (60Hz, 1cyc, Tj=25°C)	$I_{FSM}$	40	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

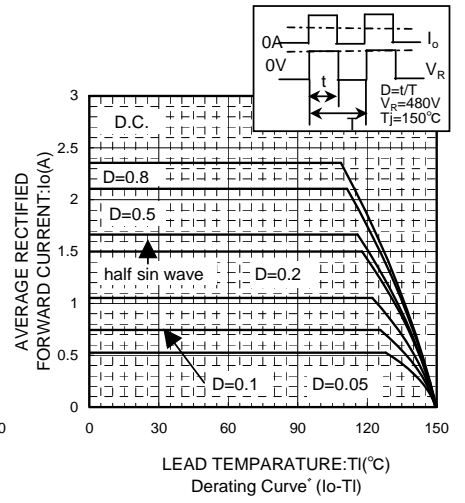
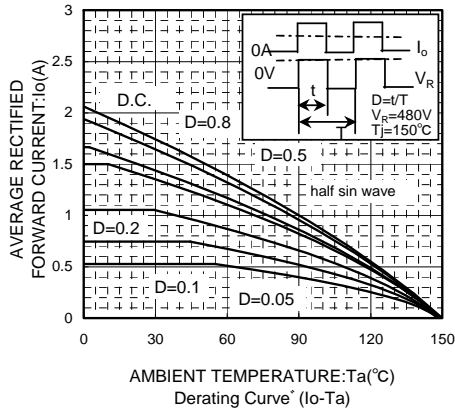
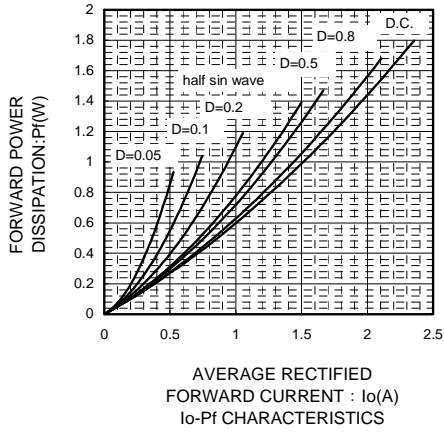
(\*1) Half sinwave on the Glass epoxy substrate (size : 50mmx50mm), Tc=90°CMax.

**●Electrical characteristics (Tj=25°C)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=1.5A$	-	1.25	1.55	V
Reverse current	$I_R$	$V_R=600V$	-	0.03	10	μA
Reverse recovery time	$t_{rr}$	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \times I_R$	-	20	35	ns
Thermal Resistance	$R_{th(j-l)}$	junction to lead	-	-	23	°C/W

●Electrical characteristics curves





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