

Schottky barrier diode

RSX301LA-30

● Applications

General rectification

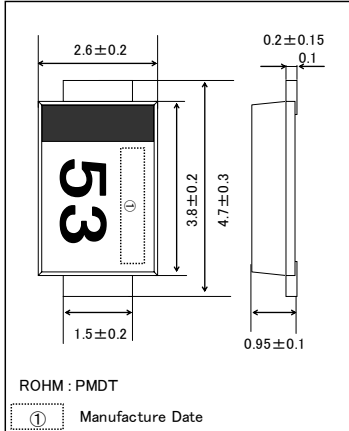
● Features

- 1) Small and Thin power mold type. (PMDT)
- 2) Low I_R & Low V_F
- 3) High reliability.

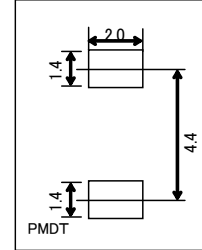
● Construction

Silicon epitaxial planar

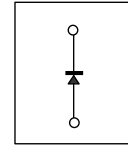
● External dimensions (Unit : mm)



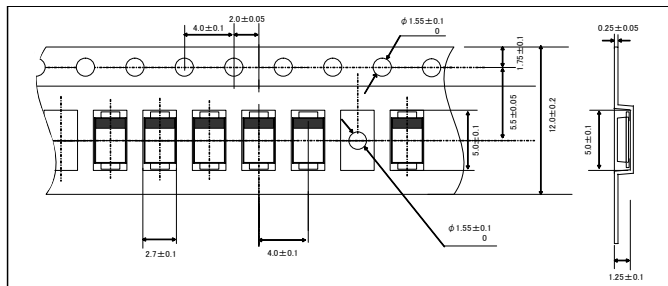
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	3	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

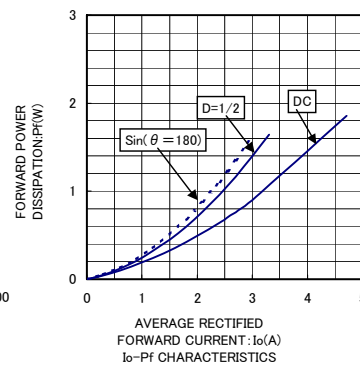
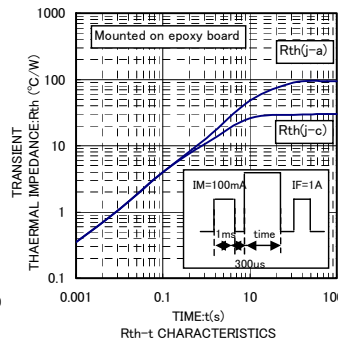
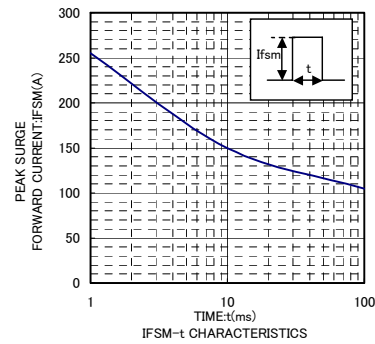
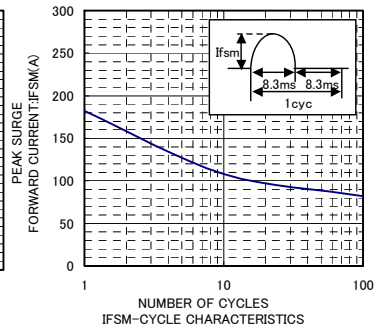
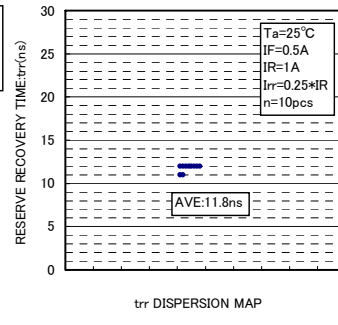
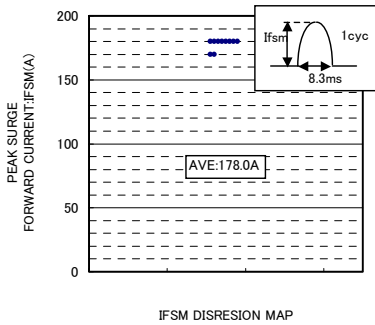
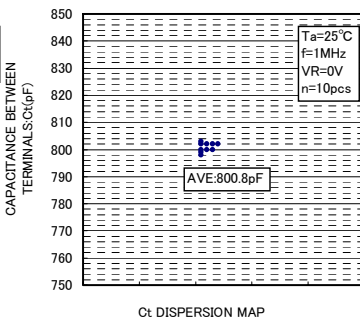
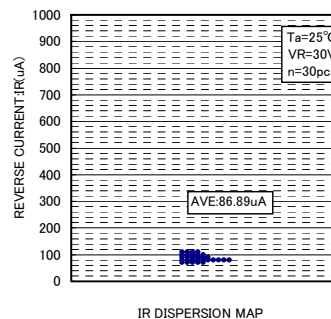
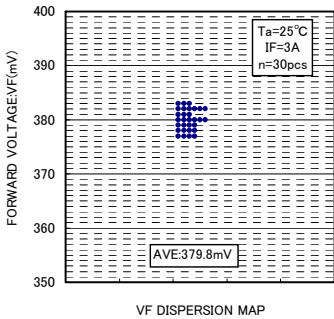
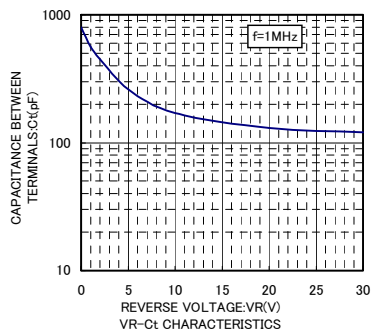
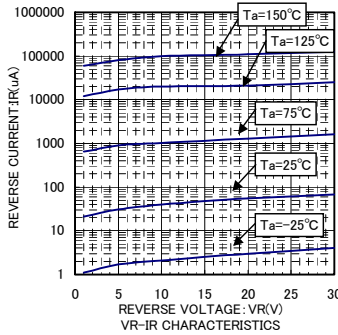
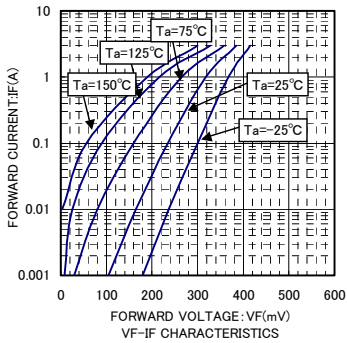
(*1) $T_c=90^\circ\text{Cmax}$ Mounted on epoxy board. 180°Half sine wave

● Electrical characteristics (Ta=25°C)

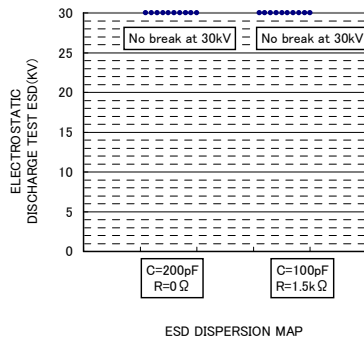
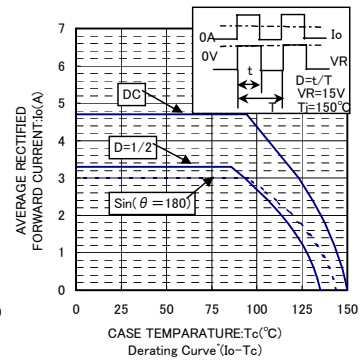
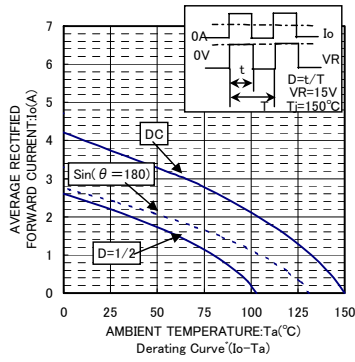
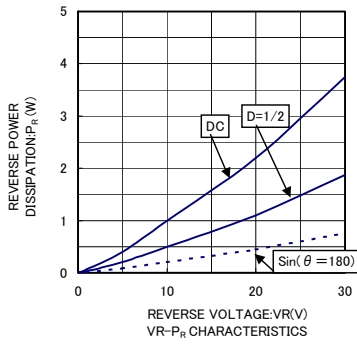
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.42	V	$I_F=3.0\text{A}$
Reverse current	I_{R1}	-	-	90	μA	$V_R=15\text{V}$
	I_{R2}	-	-	200	μA	$V_R=30\text{V}$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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