

Schottky barrier diode

RSX501LA-20

●Applications

General rectification

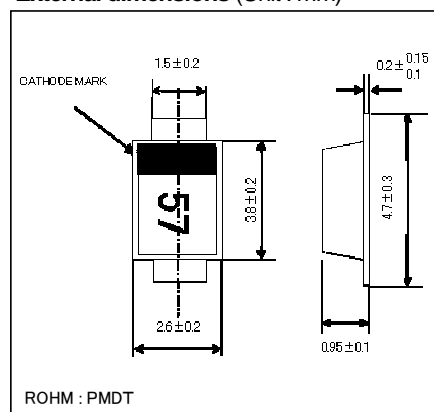
●Features

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

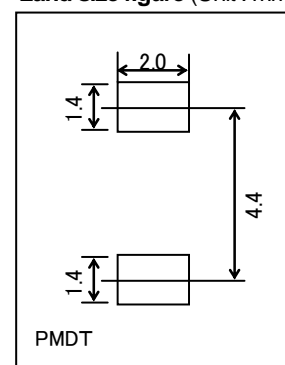
●Structure

Silicon epitaxial planar

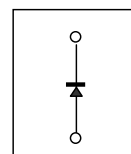
●External dimensions (Unit : mm)



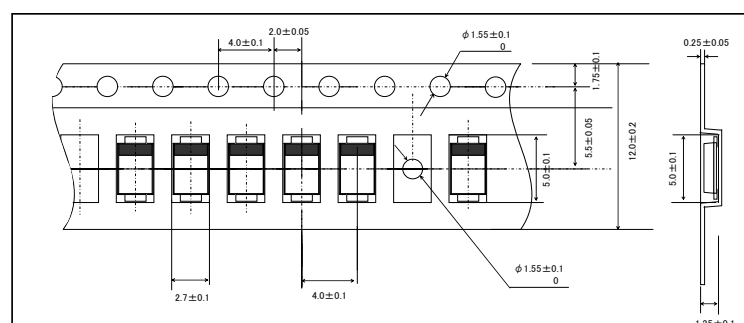
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	25	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current (*1)	I_O	5.0	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	70	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

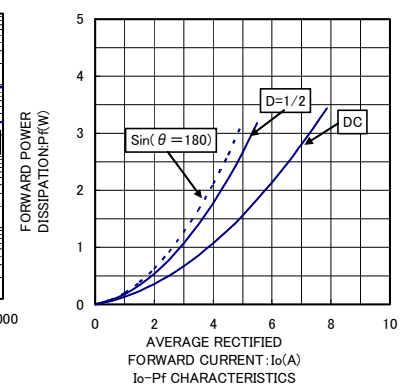
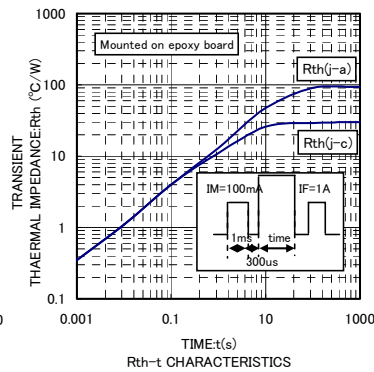
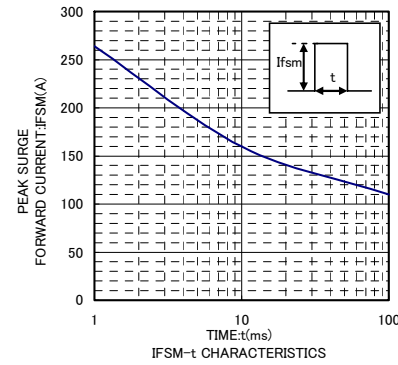
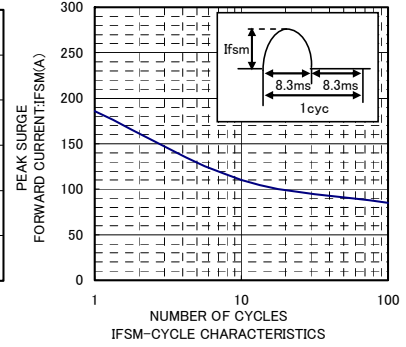
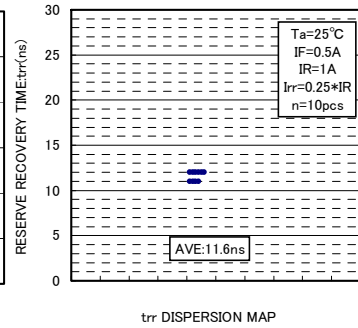
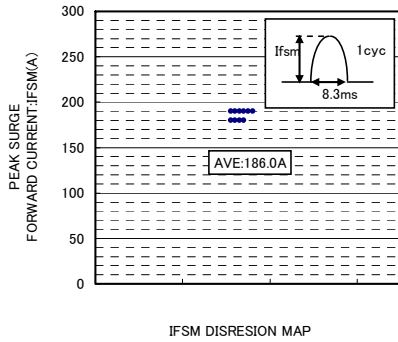
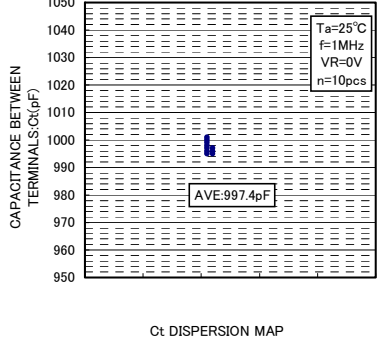
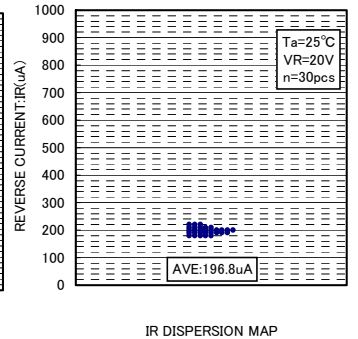
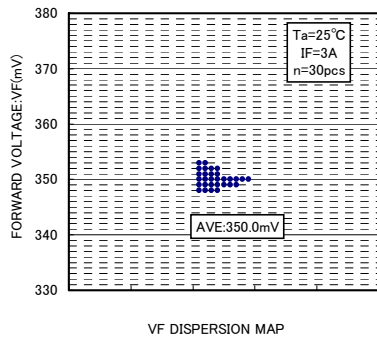
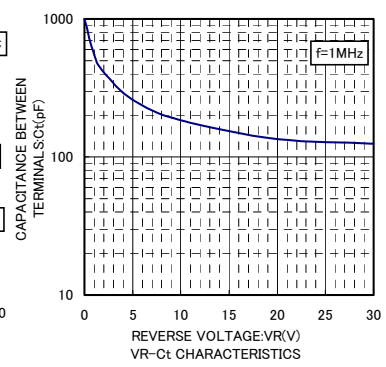
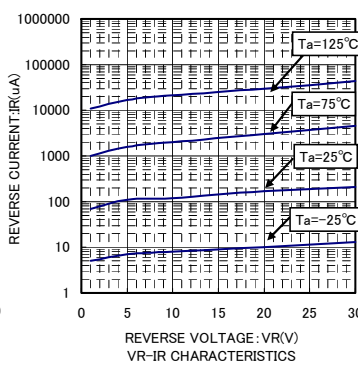
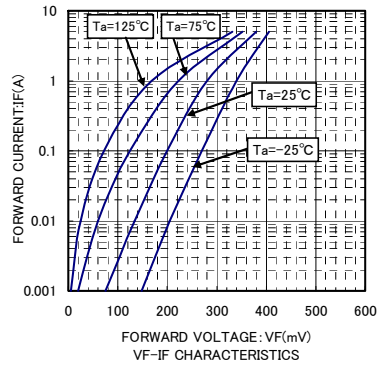
(*1) Alumina substrate at the time of assemble, $T_c=90^\circ\text{C}$ max.

●Electrical characteristic (Ta=25°C)

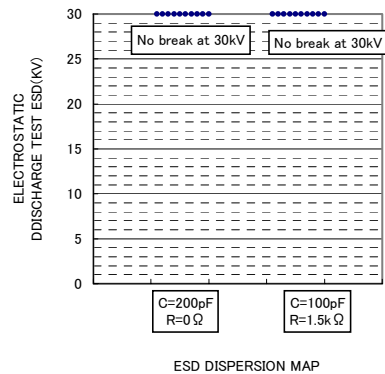
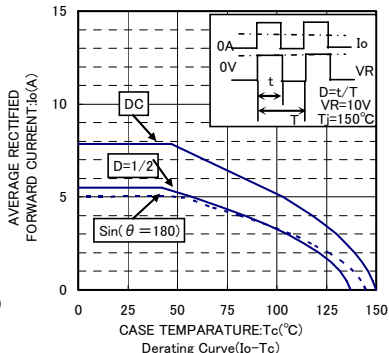
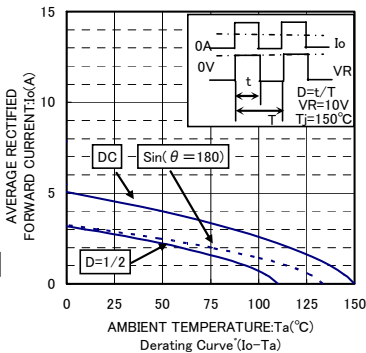
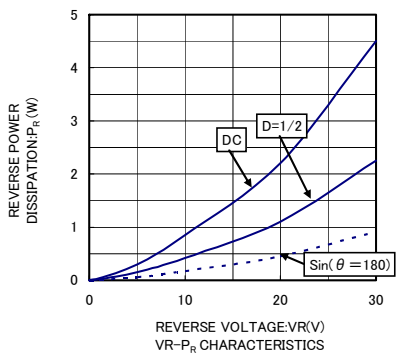
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.39	V	$I_F=3.0\text{A}$
Reverse current	I_R	-	-	500	μA	$V_R=20\text{V}$

Diodes

Electrical characteristic curves



Diodes



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