

# Schottky barrier diode

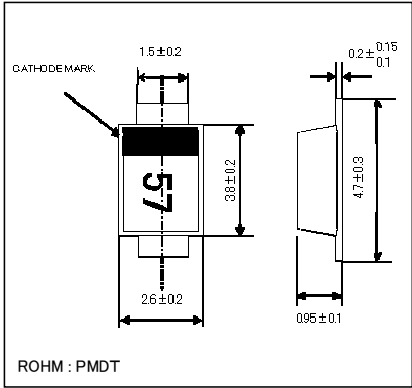
## RSX501LA-20

**●Applications**  
General rectification

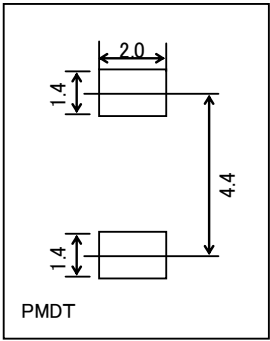
**●Features**  
1) Small and Thin power mold type (PMDT)  
2) High reliability.  
3) Low I<sub>r</sub>

**●Structure**  
Silicon epitaxial planar

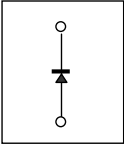
**●External dimensions (Unit : mm)**



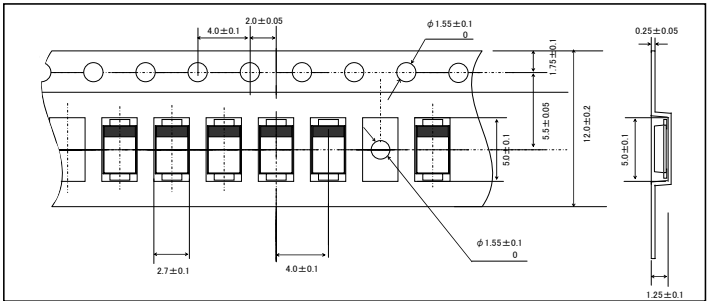
**●Land size figure (Unit : mm)**



**●Structure**



**●Taping dimensions (Unit : mm)**



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	25	V
Reverse voltage (DC)	V <sub>R</sub>	20	V
Average rectified forward current (*1)	I <sub>o</sub>	5.0	A
Forward current surge peak (60Hz·1cyc.)	I <sub>FSM</sub>	70	A
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40 to +125	°C

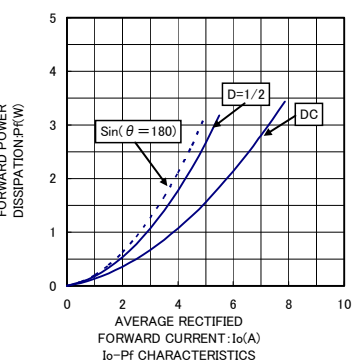
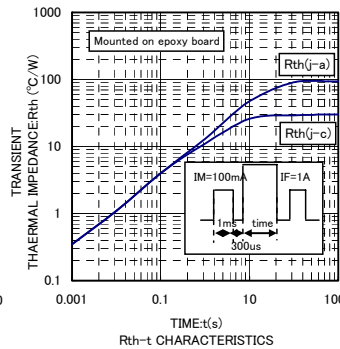
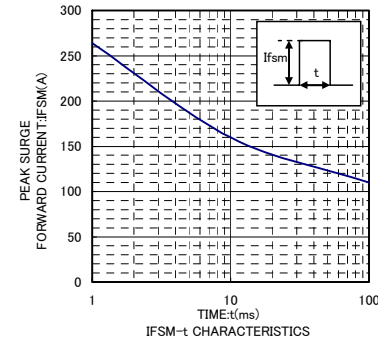
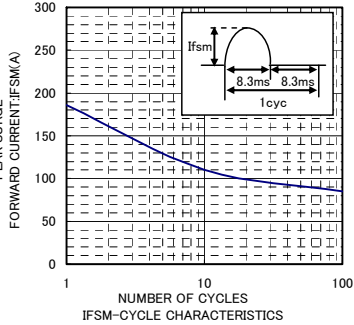
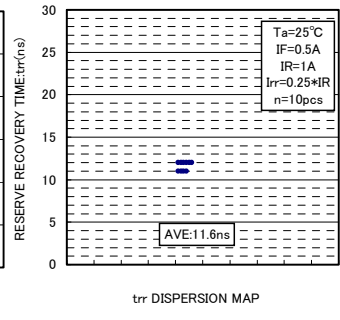
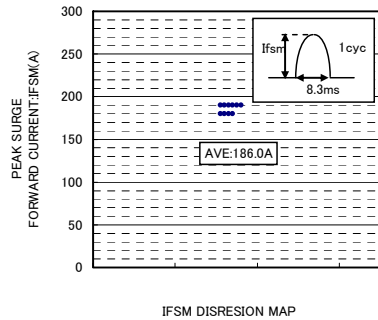
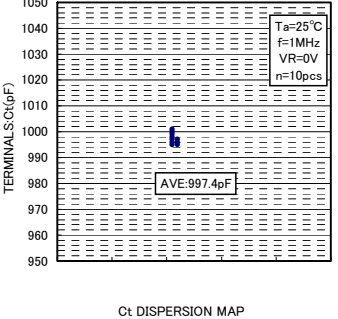
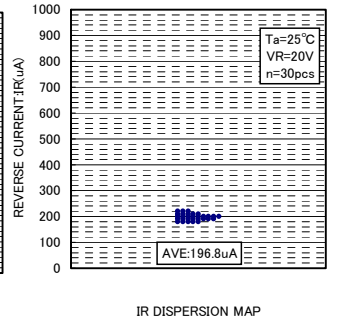
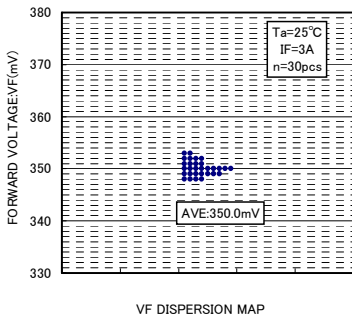
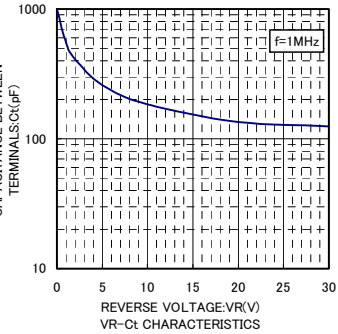
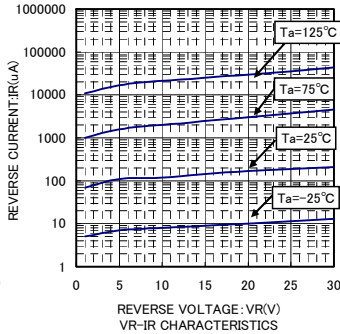
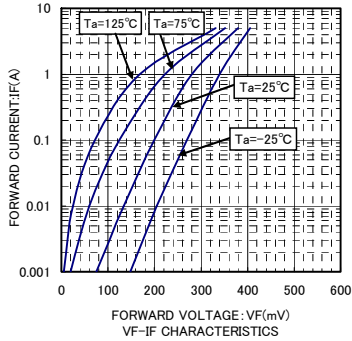
(\*1) Alumina substrate at the time of assemble, T<sub>c</sub>=90°C max.

**●Electrical characteristic (Ta=25°C)**

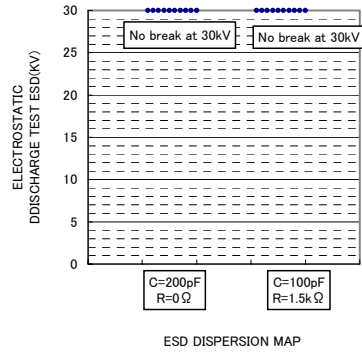
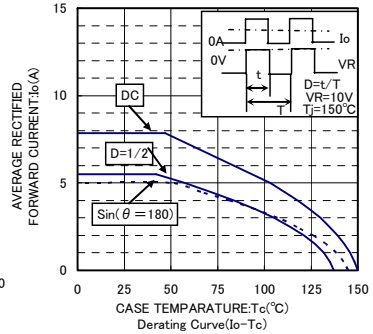
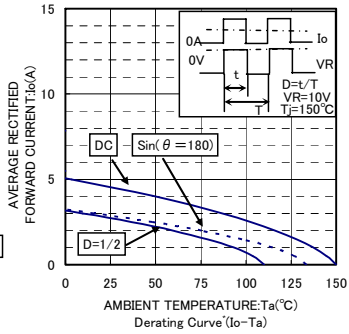
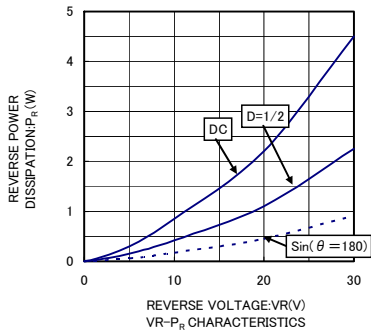
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	0.39	V	I <sub>F</sub> =3.0A
Reverse current	I <sub>R</sub>	-	-	500	μA	V <sub>R</sub> =20V

Diodes

● Electrical characteristic curves



Diodes



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