Schottky barrier diode

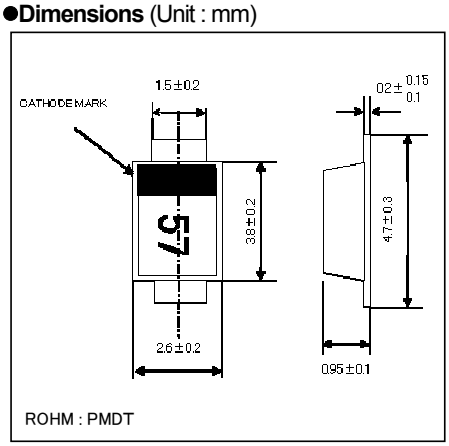
RSX501LA-20

●Applications
General rectification

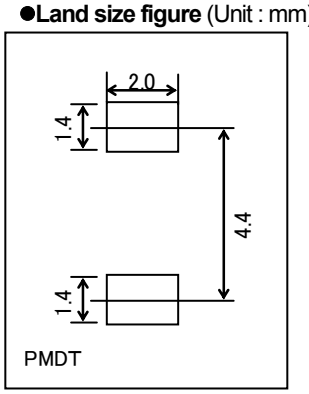
●Features
1) Small and Thin power mold type (PMDT)
2) High reliability.
3) Low I_R

●Structure
Silicon epitaxial planar

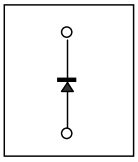
●Dimensions (Unit : mm)



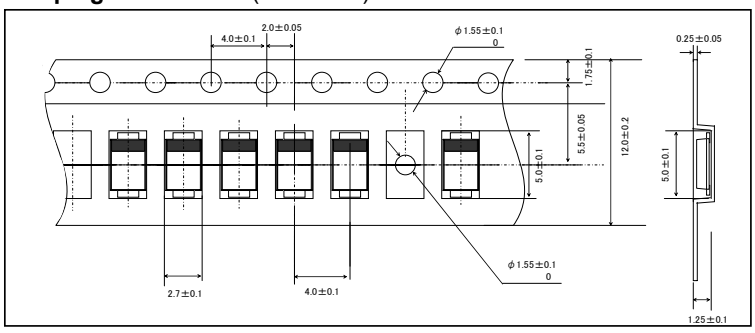
●Land size figure (Unit : mm)



●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)	Io	5.0	A
Forward current surge peak（60Hz･1cyc)	I_{FSM}	70	A
Junction temperature	Tj	125	℃
Storage temperature	Tstg	-40 to +125	℃

(*1) Alumina substrate at the time of assemble, Tc=90℃ max.

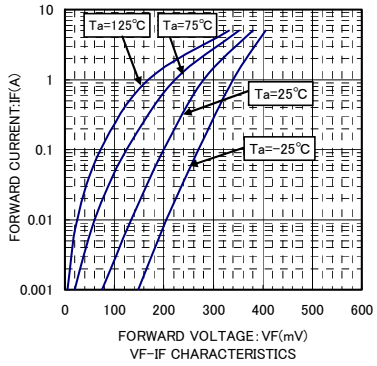
●Electrical characteristic (Ta=25°C)

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

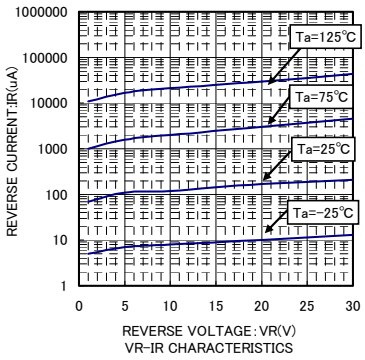
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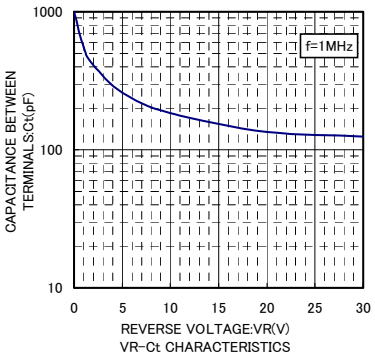
●Electrical characteristic curves



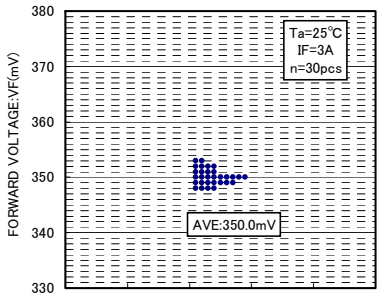
VF-IF CHARACTERISTICS



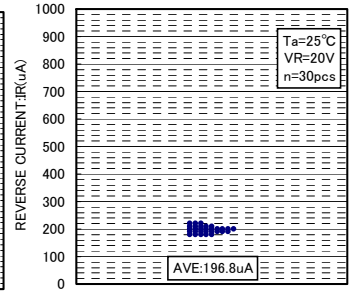
VR-IR CHARACTERISTICS



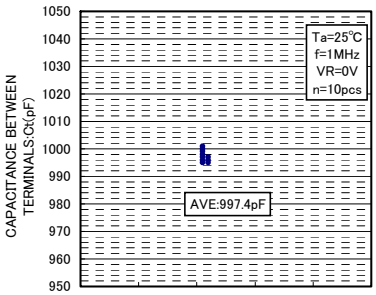
VR-Ct CHARACTERISTICS



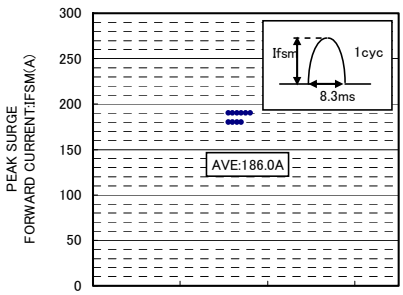
VF DISPERSION MAP



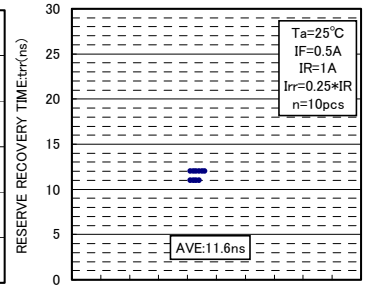
IR DISPERSION MAP



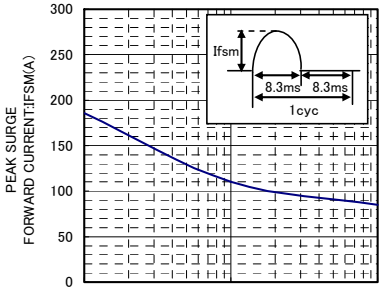
Ct DISPERSION MAP



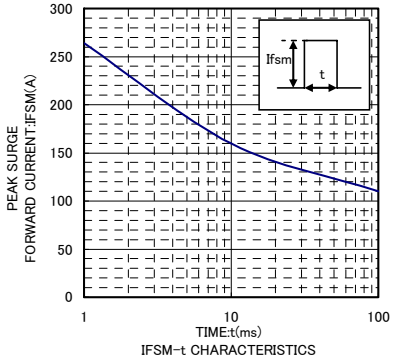
IFSM DISRESION MAP



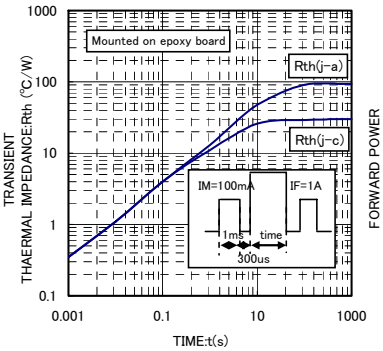
trr DISPERSION MAP



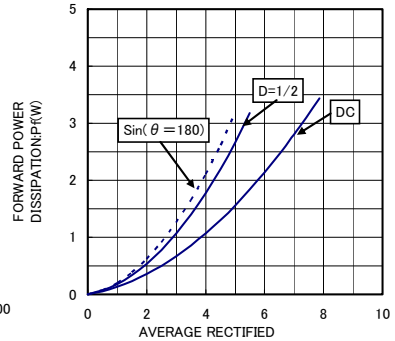
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



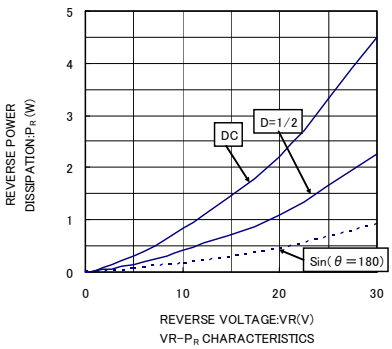
Rth-t CHARACTERISTICS

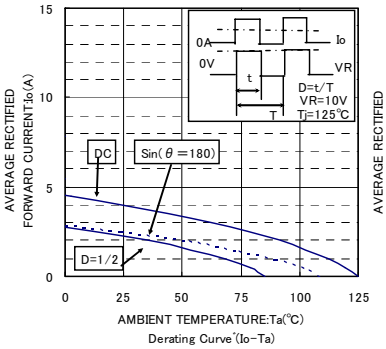


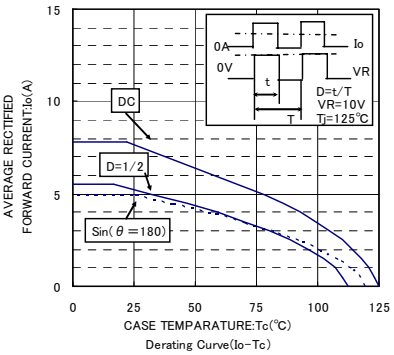
Io-Pf CHARACTERISTICS

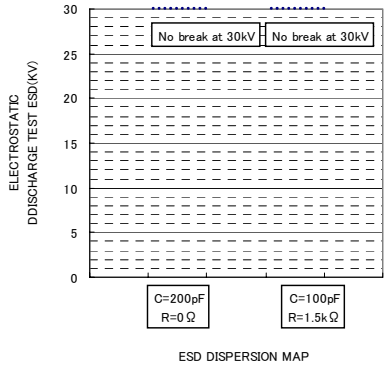
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