Schottky barrier diode

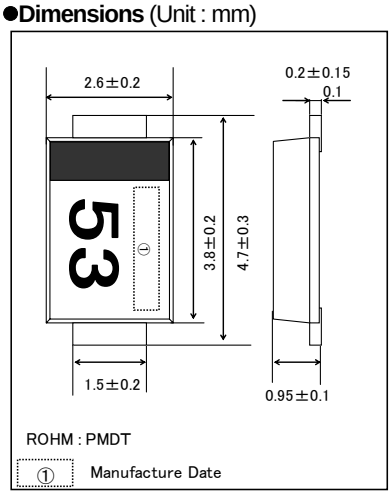
RSX301LA-30

●**Applications**
General rectification

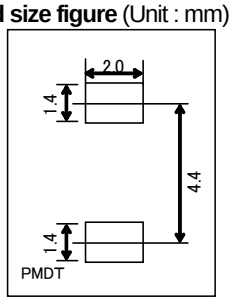
●**Features**
1) Small and Thin power mold type. (PMDT)
2) Low I_R & Low V_F
3) High reliability.

●**Construction**
Silicon epitaxial planar

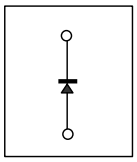
●**Dimensions** (Unit : mm)



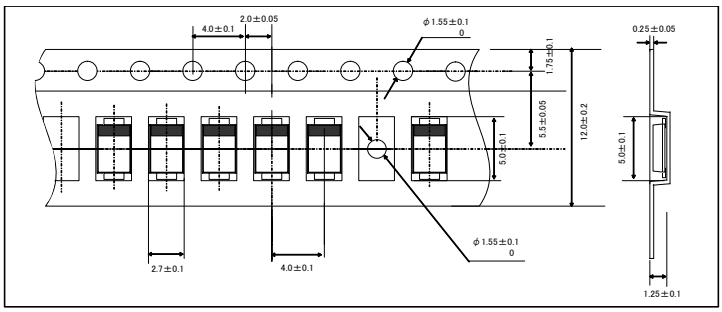
● **Land size figure** (Unit : mm)



●**Structure**



● **Taping specifications** (Unit : mm)



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

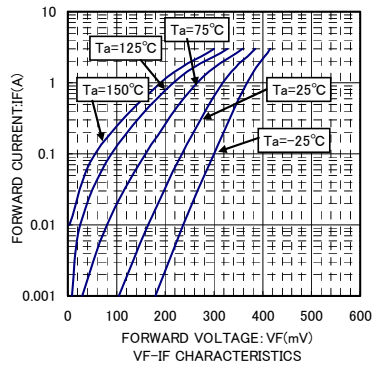
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	Io	3	A
Forward current saurge peak (60Hz・1cyc)	I_{FSM}	70	A
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-40 to +150	℃

(*1)Tc=90℃max Mounted on epoxy board. 180°Half sine wave

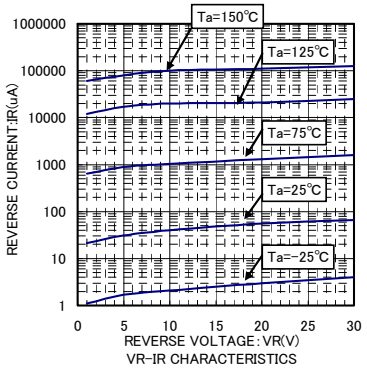
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.42	V	I_F=3.0A
Reverse current	I_R1	-	-	90	μA	V_R=15V
	I_R2	-	-	200	μA	V_R=30V

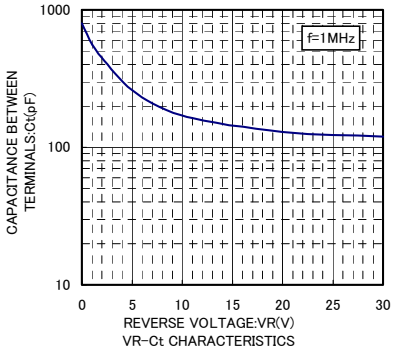
●**Electrical characteristic curves** (Ta=25°C)



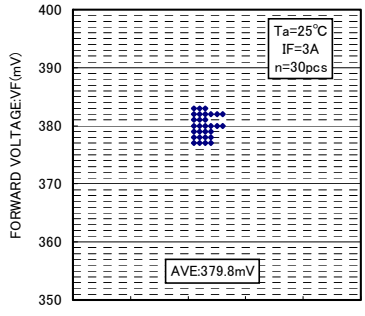
VF-IF CHARACTERISTICS



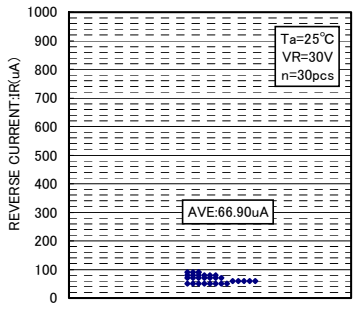
VR-IR CHARACTERISTICS



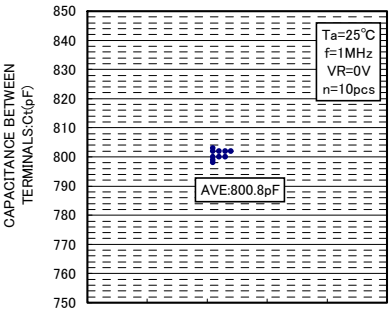
VR-Ct CHARACTERISTICS



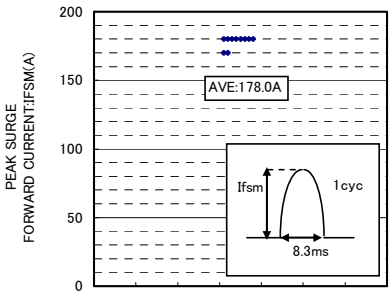
VF DISPERSION MAP



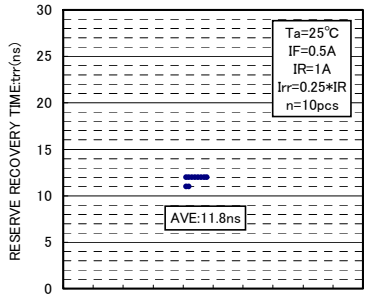
IR DISPERSION MAP



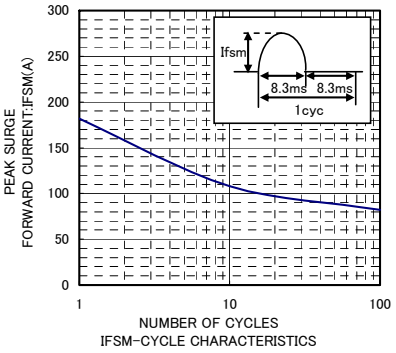
Ct DISPERSION MAP



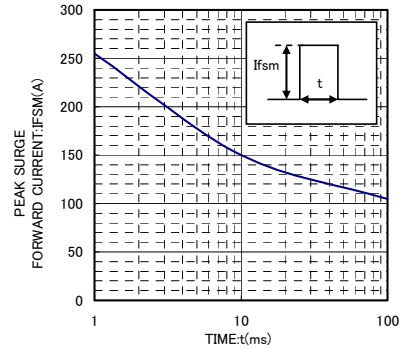
IFSM DISPERSION MAP



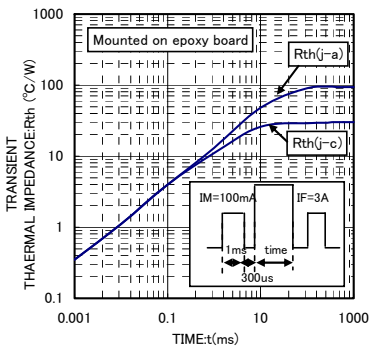
trr DISPERSION MAP



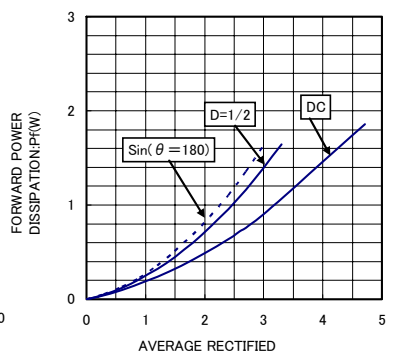
IFSM-CYCLE CHARACTERISTICS



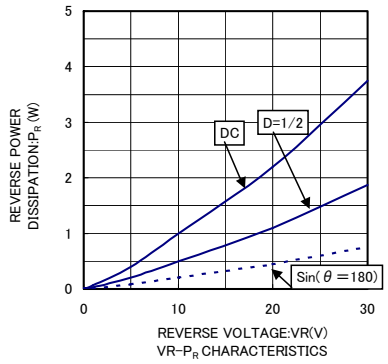
IFSM-t CHARACTERISTICS

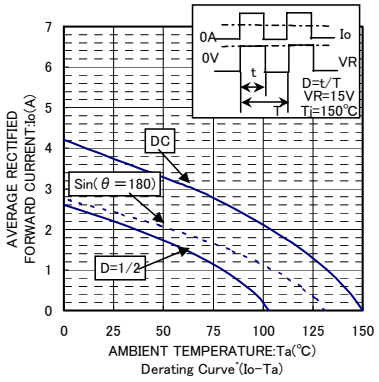


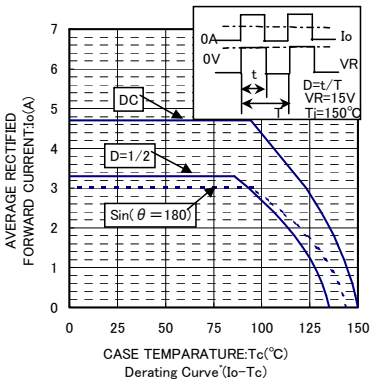
Rth-t CHARACTERISTICS

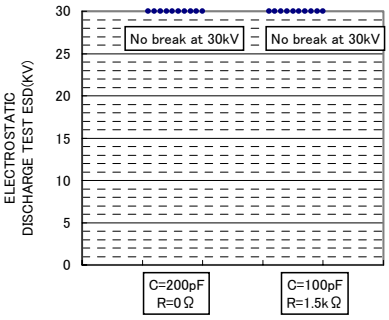


Io-Pf CHARACTERISTICS









ESD DISPERSION MAP

Notes

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