

Schottky barrier Diode

RSX201L-30

●Applications

General rectification

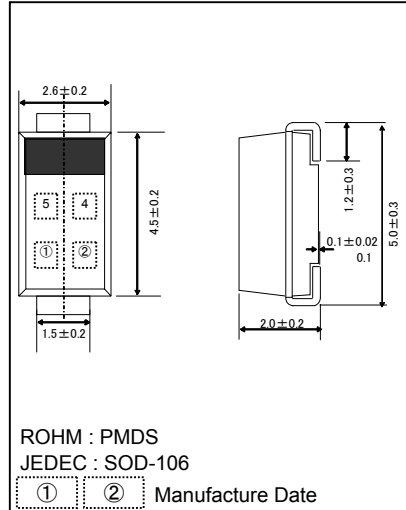
●Features

- 1) Small power mold type. (PMDS)
- 2) Low V_F , Low I_R .
- 3) High reliability.

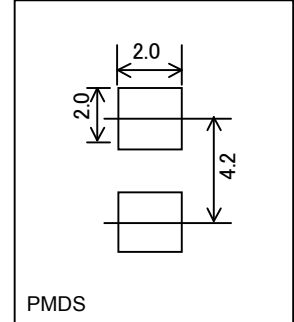
●Construction

Silicon epitaxial planar

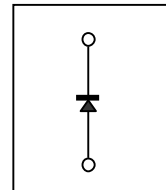
●Dimensions (Unit : mm)



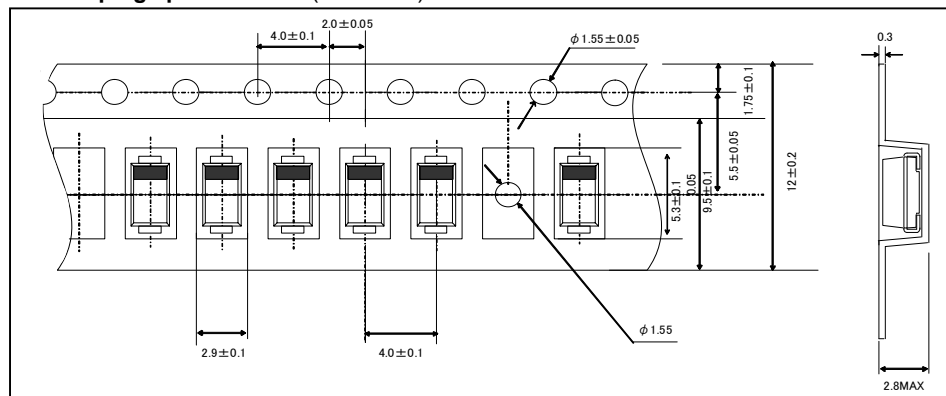
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



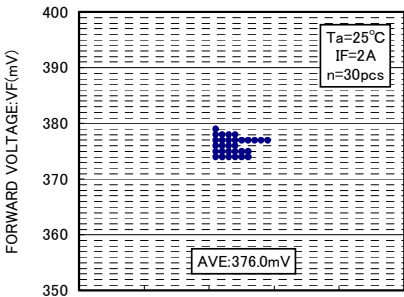
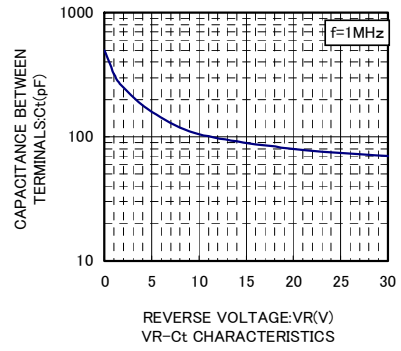
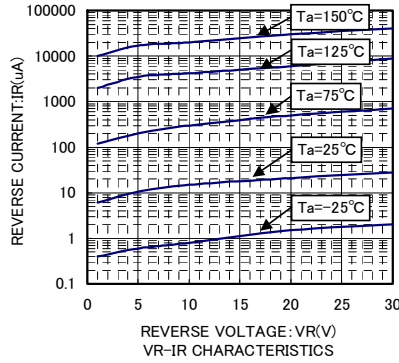
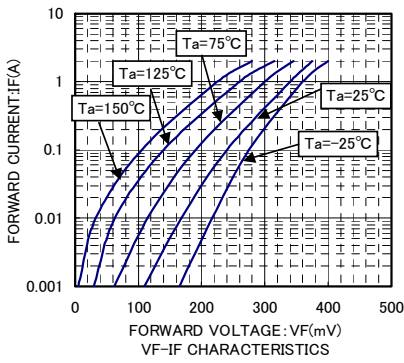
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	2	A
Forward current surge peak (60Hz · 1cyc)(*1)	I_{FSM}	60	A
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

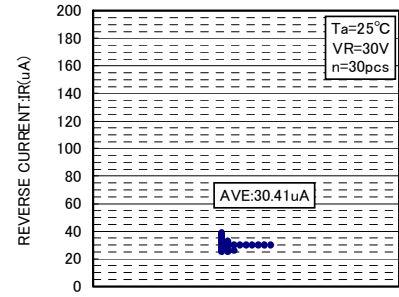
(*1) $T_c=90^\circ\text{C}$ max Mounted on epoxy board. 180°Half sine wave

●Electrical characteristics (Ta=25°C)

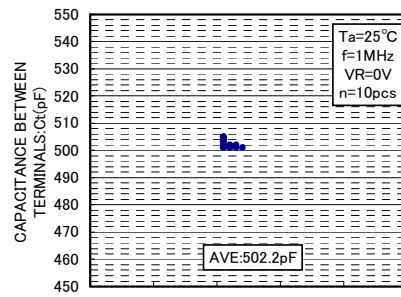
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.44	V	$I_F=2.0A$
Reverse current	I_R	-	-	150	μA	$V_R=30V$



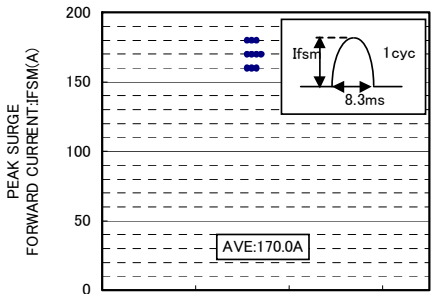
VF DISPERSION MAP



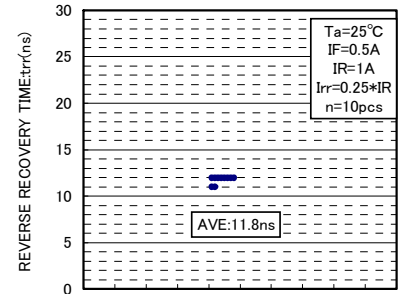
IR DISPERSION MAP



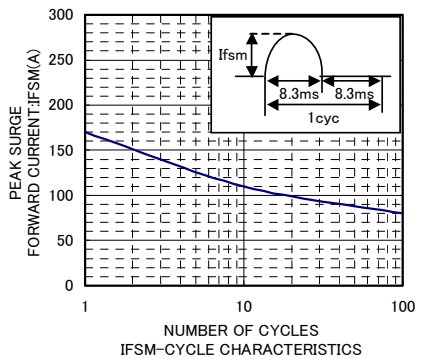
C_t DISPERSION MAP



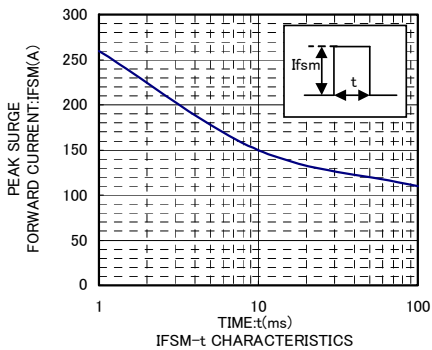
IFSM DISRESION MAP



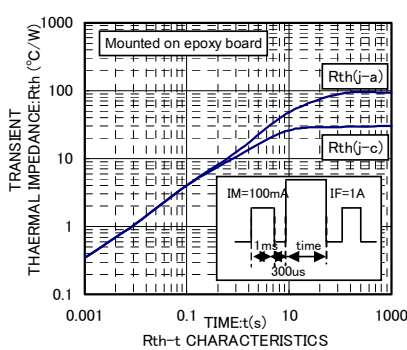
tr_r DISPERSION MAP



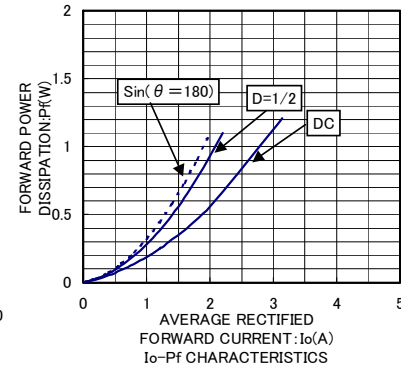
IFSM-CYCLE CHARACTERISTICS



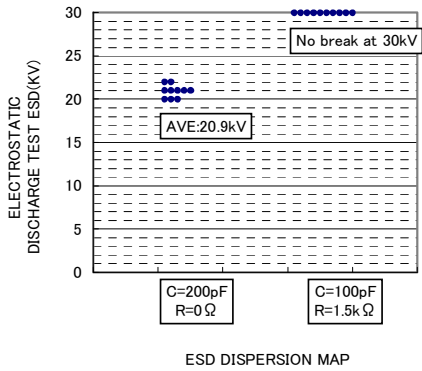
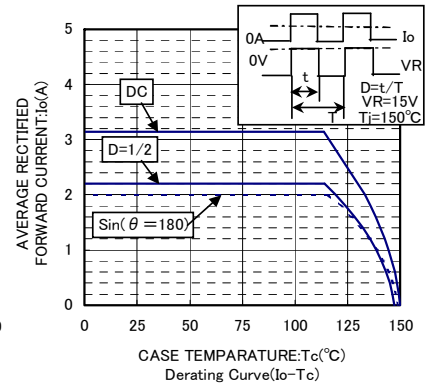
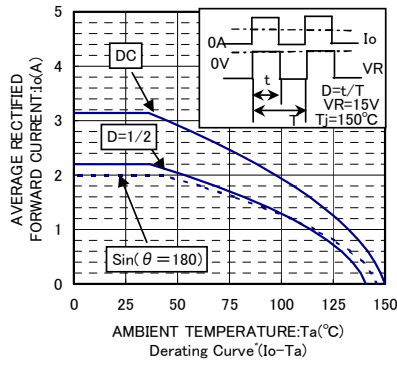
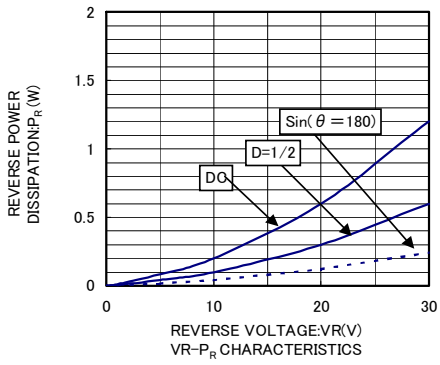
IFSM-t CHARACTERISTICS



R_{th}-t CHARACTERISTICS



I_o-P_f CHARACTERISTICS



Notes

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