

Schottky Barrier Diode

RSX205L-30

●Applications

General rectification

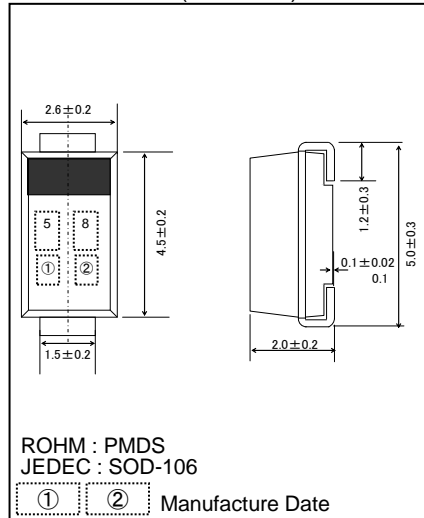
●Features

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

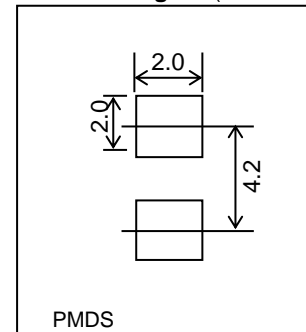
●Construction

Silicon epitaxial planer

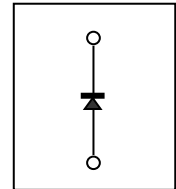
●Dimensions (Unit : mm)



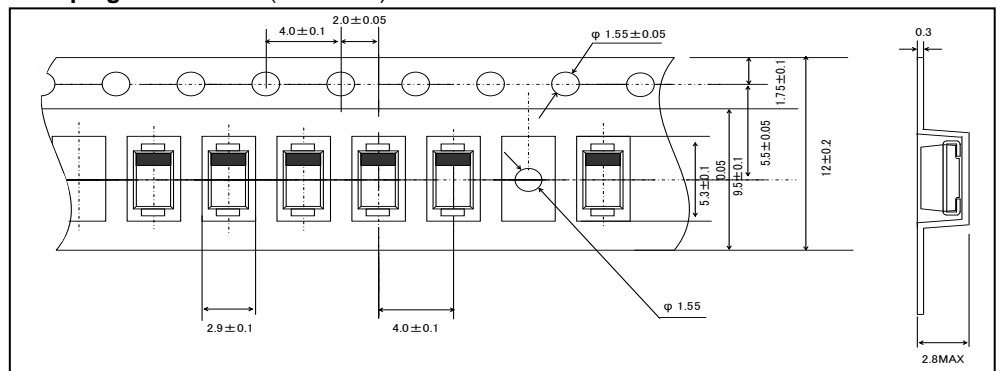
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



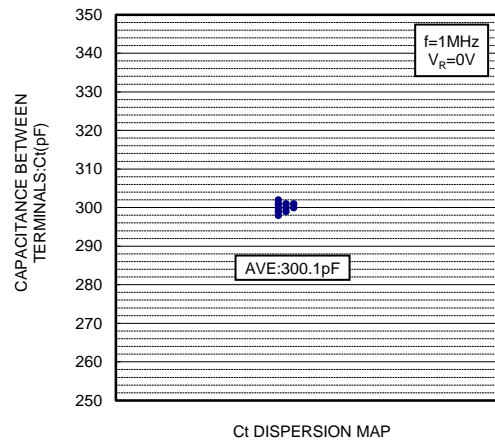
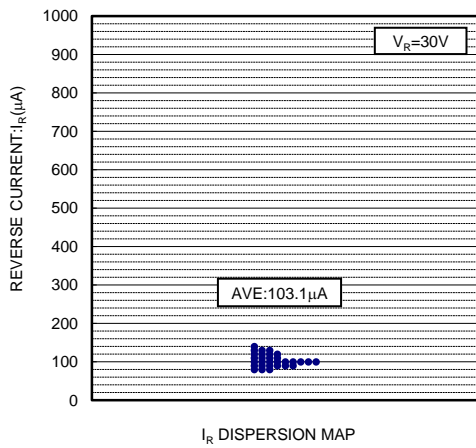
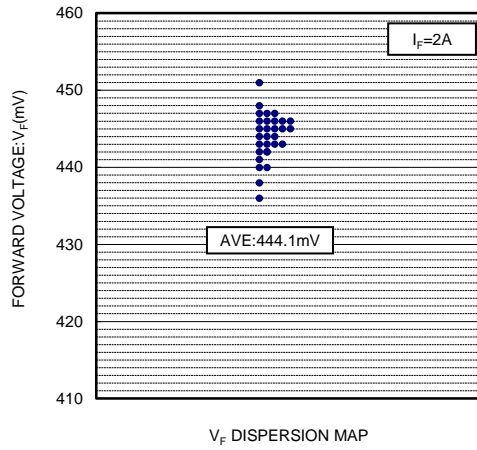
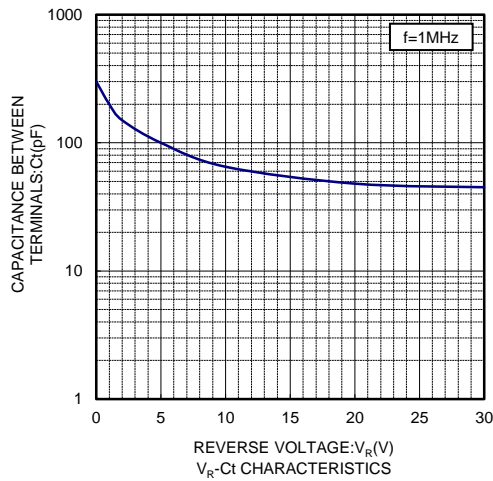
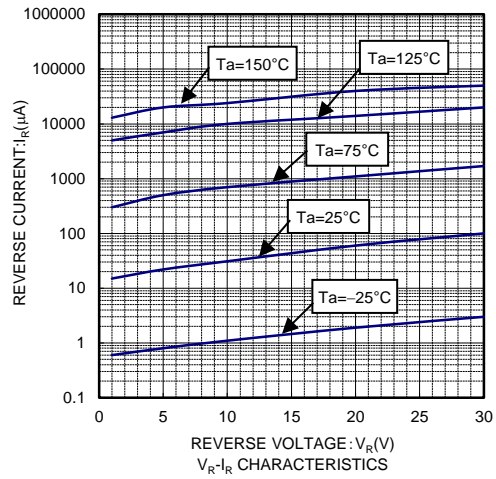
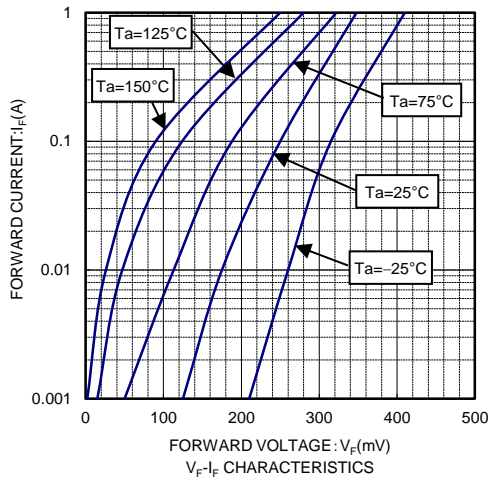
●Absolute maximum ratings (Ta=25°C)

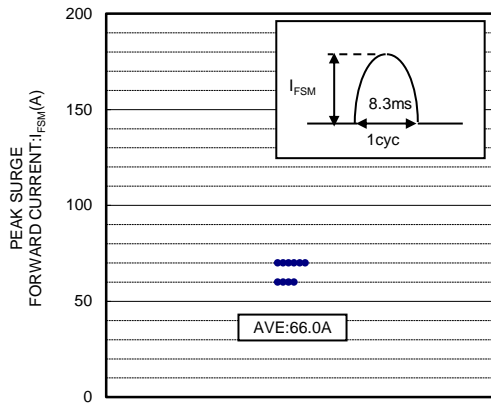
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	2.0	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	60	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

(*1)On the Glass epoxy board, $T_c=95^\circ\text{C}$ MAX.

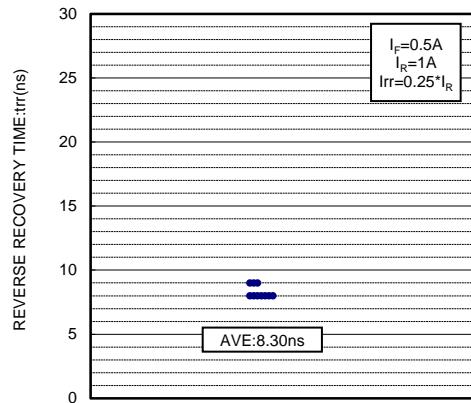
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.49	V	$I_F=2.0\text{A}$
Reverse current	I_R	-	-	200	μA	$V_R=30\text{V}$

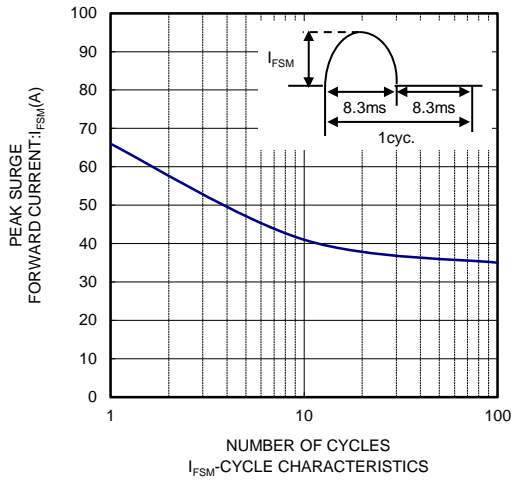




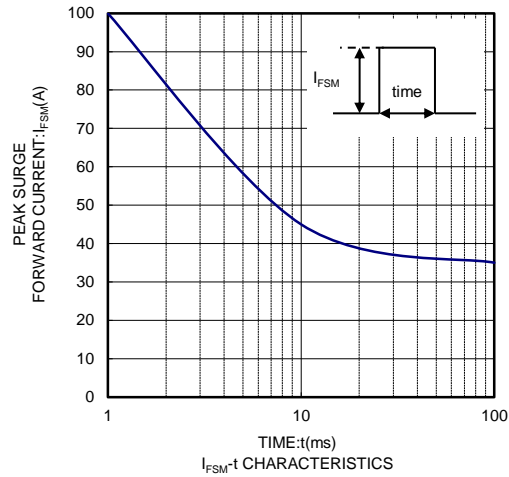
I_{FSM} DISPERSION MAP



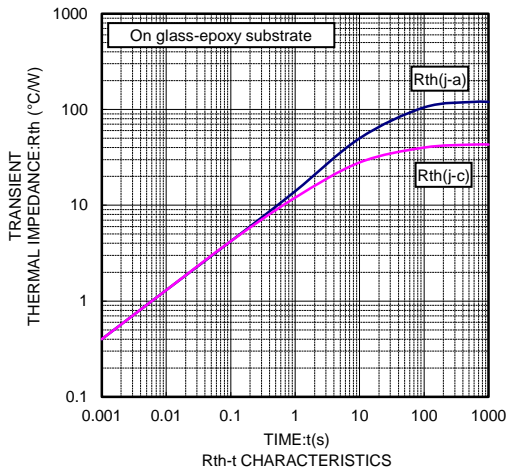
trr DISPERSION MAP



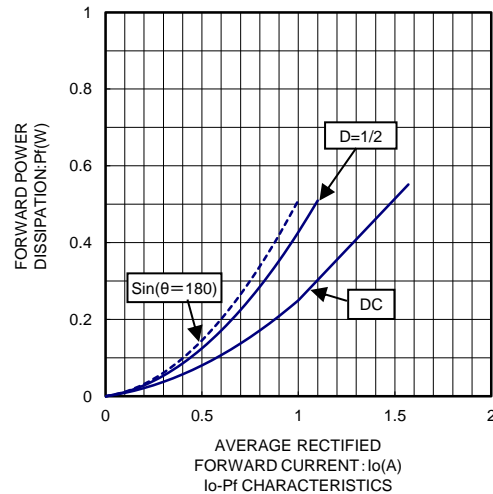
I_{FSM} -CYCLE CHARACTERISTICS



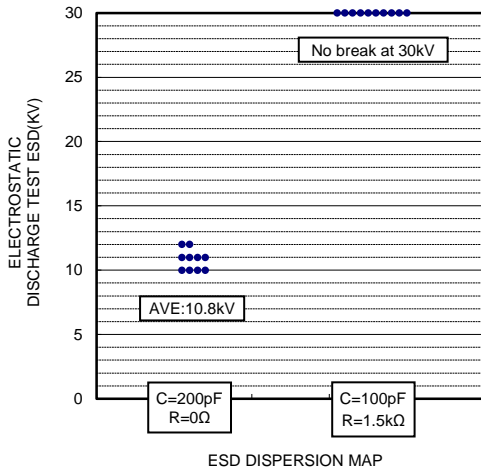
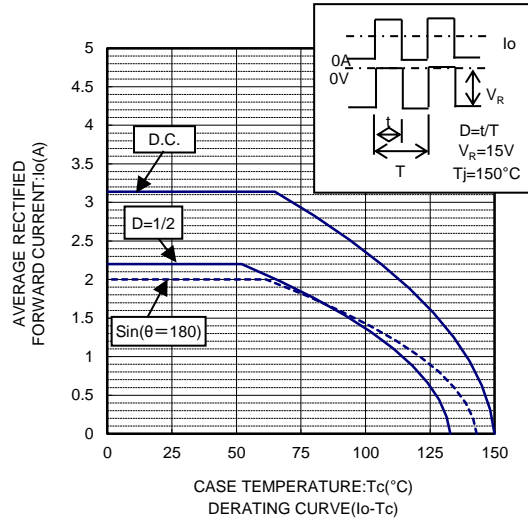
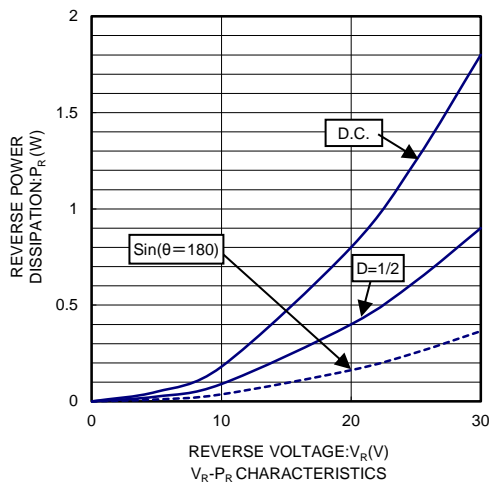
I_{FSM} -t CHARACTERISTICS



R_{th} -t CHARACTERISTICS



I_o - P_f CHARACTERISTICS



Notes

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