

Schottky Barrier Diode

RB068L100

● **Applications**

General rectification

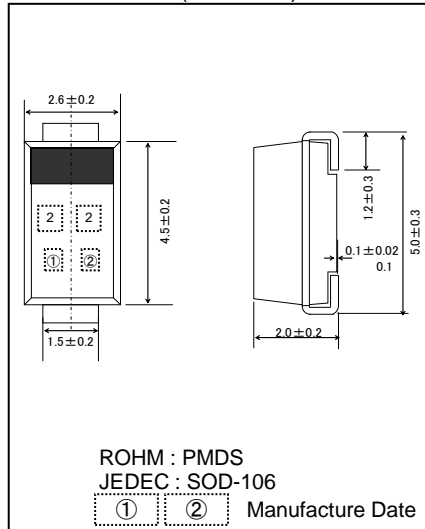
● **Features**

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

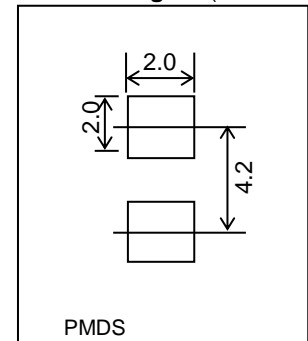
● **Construction**

Silicon epitaxial planer

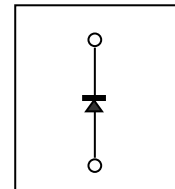
● **Dimensions (Unit : mm)**



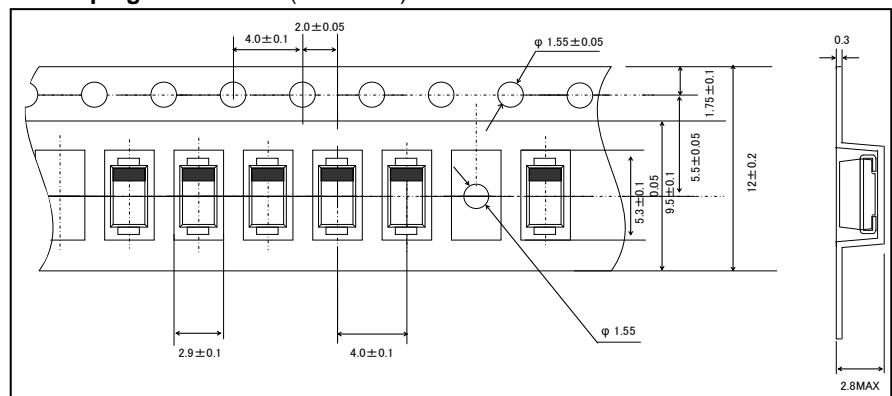
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



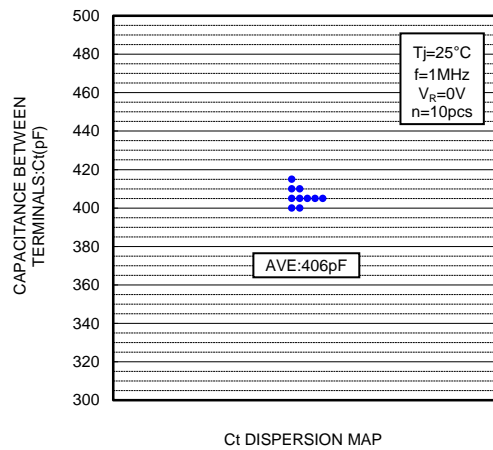
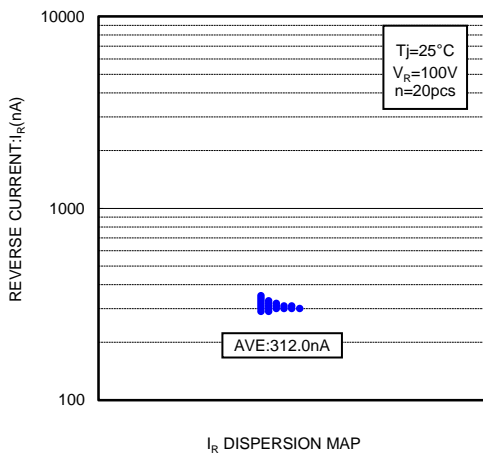
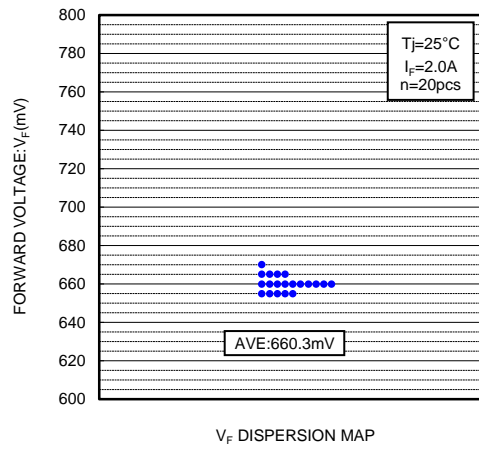
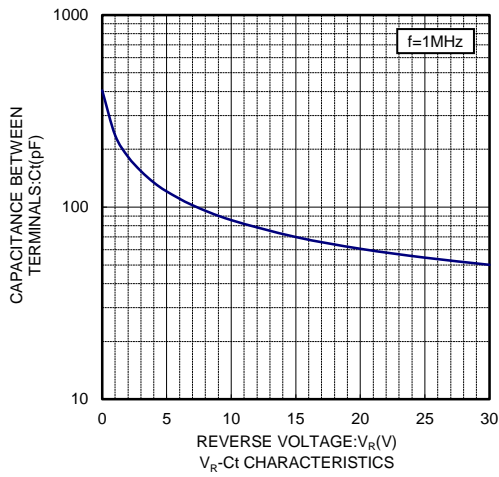
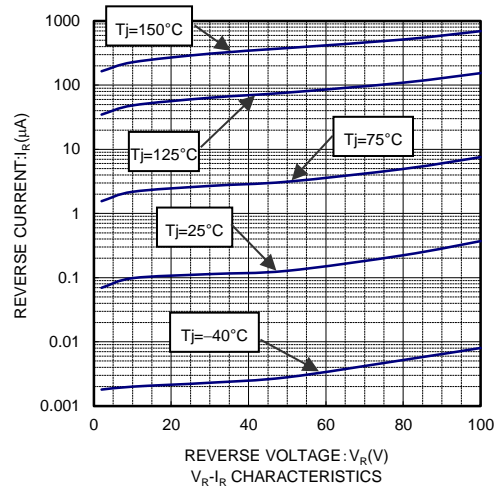
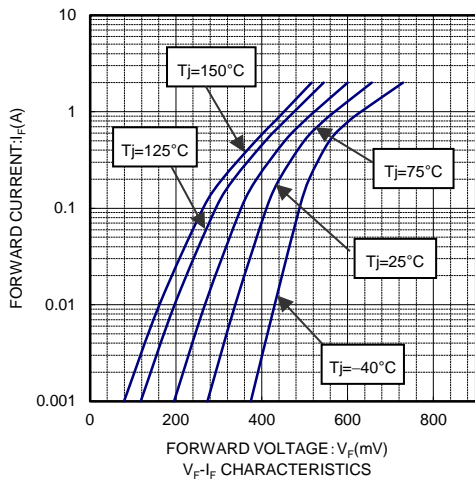
● **Absolute maximum ratings (Ta=25°C)**

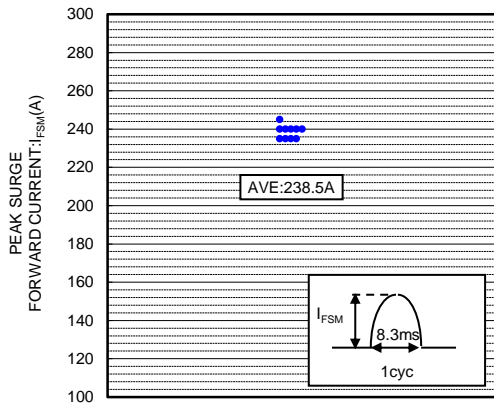
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	100	V
Reverse voltage (DC)	V_R	100	V
Average rectified forward current (*1)	I_o	2	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	60	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

(*1) Mounted on epoxy board, 60Hz half sine wave, $T_c=83^\circ\text{C}$ Max.

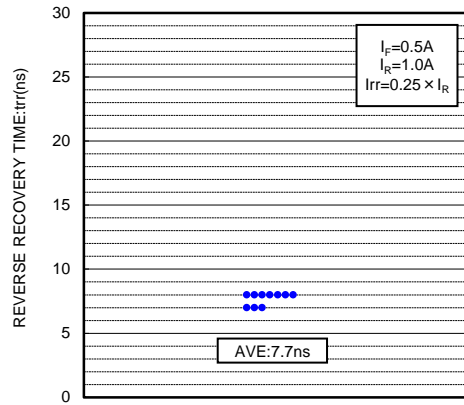
● **Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.80	V	$I_F=2.0\text{A}$
Reverse current	I_R	-	-	50	μA	$V_R=100\text{V}$

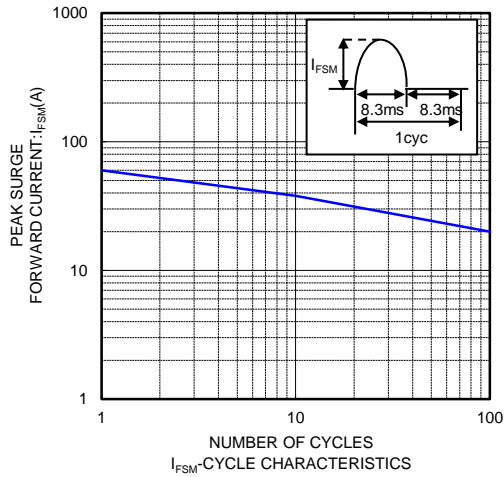




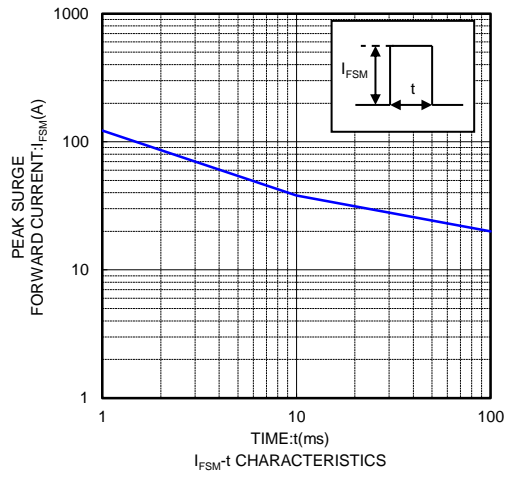
I_{FSM} DISPERSION MAP



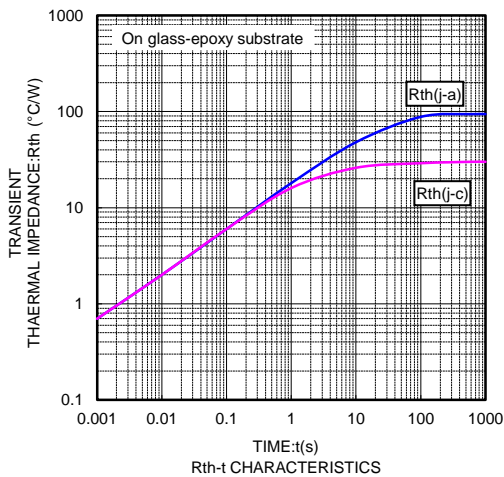
trr DISPERSION MAP



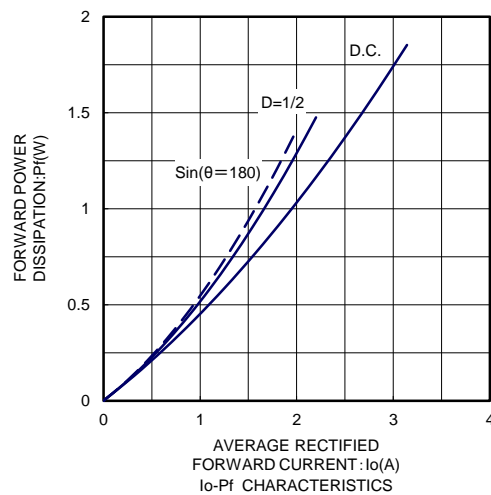
I_{FSM} CYCLE CHARACTERISTICS



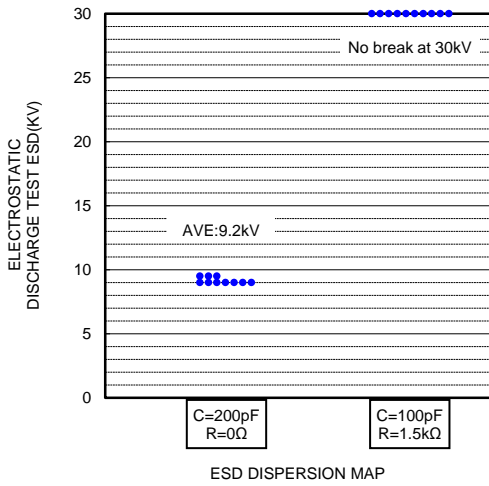
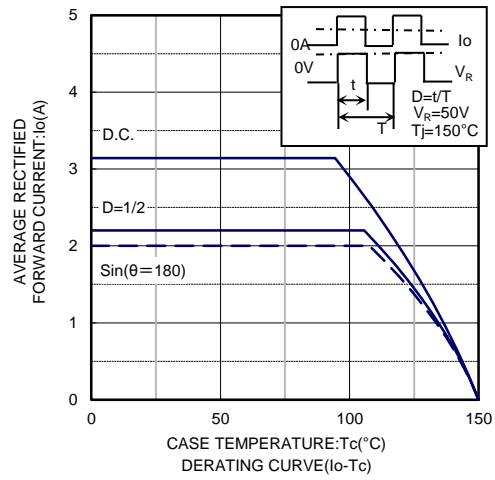
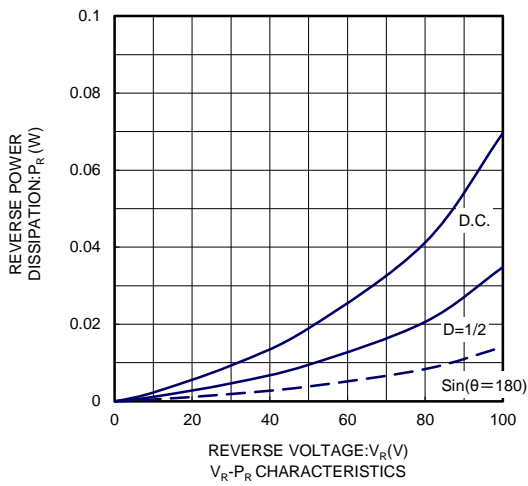
I_{FSM} -t CHARACTERISTICS



Rth-t CHARACTERISTICS



I_o -Pf CHARACTERISTICS



Notes

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