

# Schottky Barrier Diode

**RB068L100**

● **Applications**

General rectification

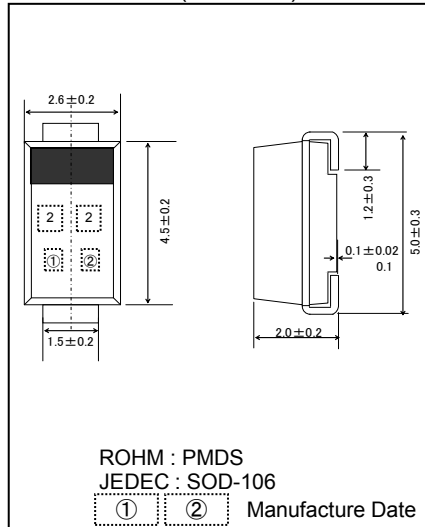
● **Features**

- 1) Small power mold type. (PMDS)
- 2) High reliability.
- 3) Low  $I_R$ .
- 4) AEC-Q101 qualified

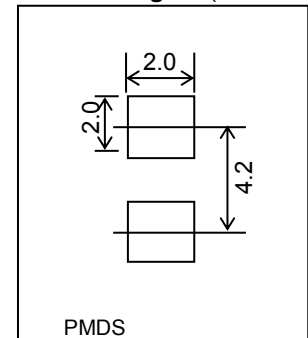
● **Construction**

Silicon epitaxial planer

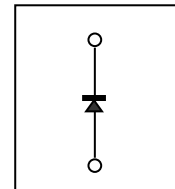
● **Dimensions (Unit : mm)**



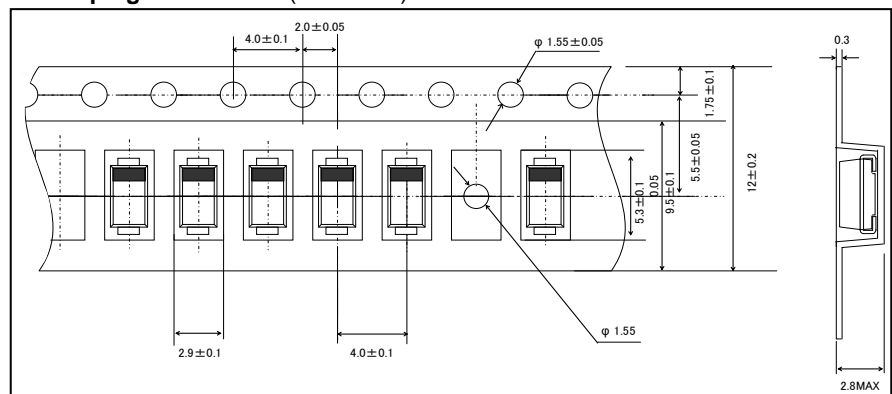
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



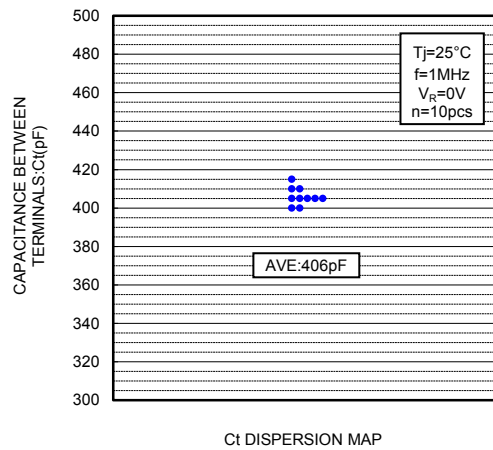
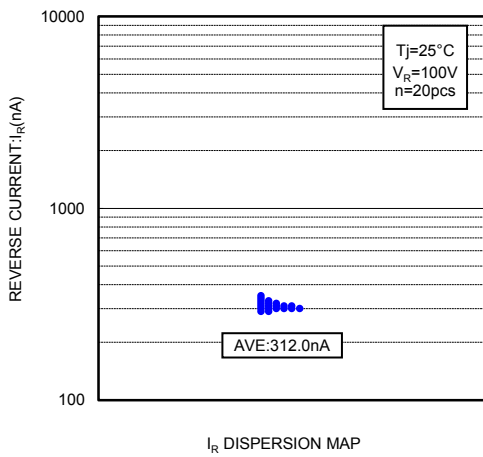
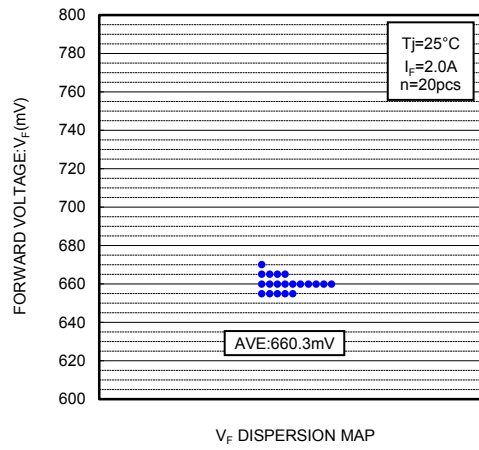
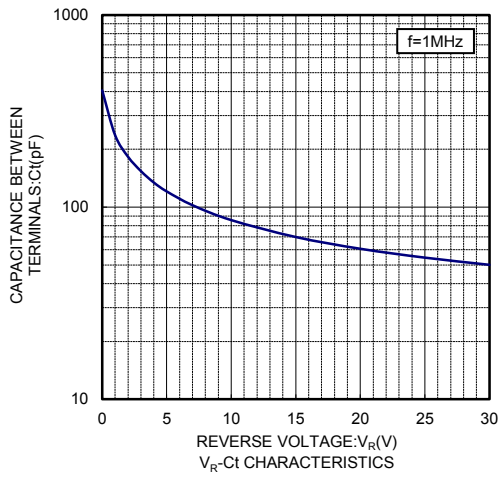
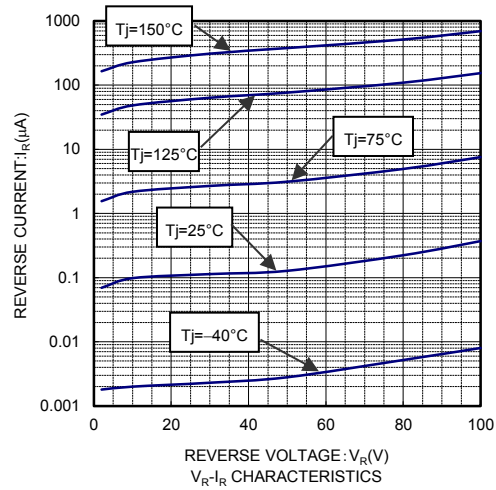
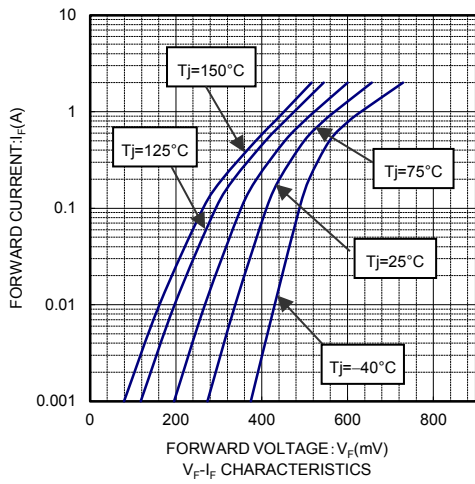
● **Absolute maximum ratings (Ta=25°C)**

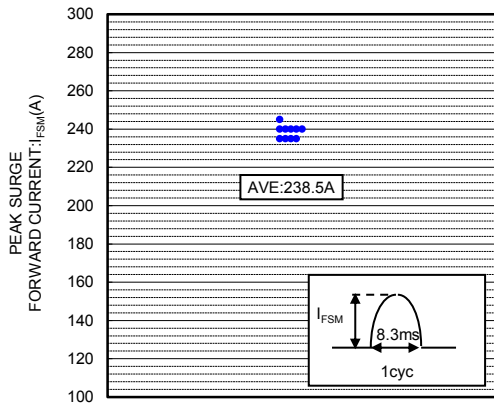
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	100	V
Reverse voltage (DC)	$V_R$	100	V
Average rectified forward current (*1)	$I_o$	2	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	60	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

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

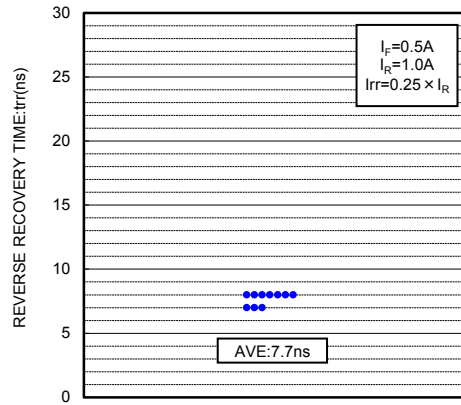
● **Electrical characteristics (Ta=25°C)**

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	$\mu\text{A}$	$V_R=100\text{V}$

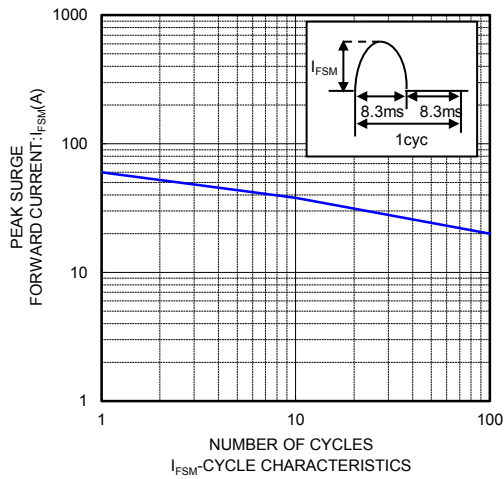




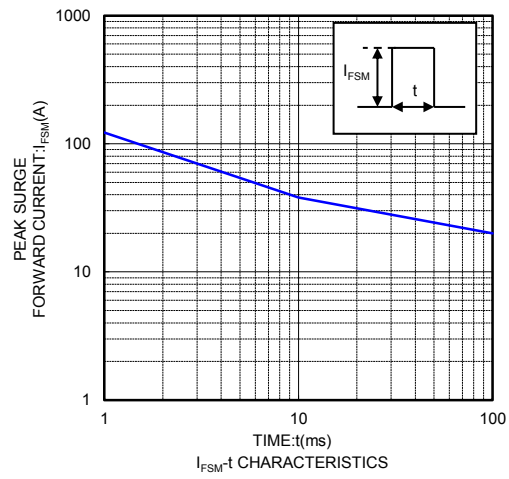
I<sub>FSM</sub> DISPERSION MAP



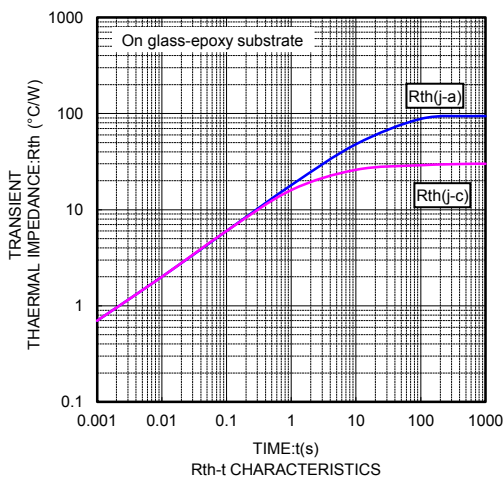
trr DISPERSION MAP



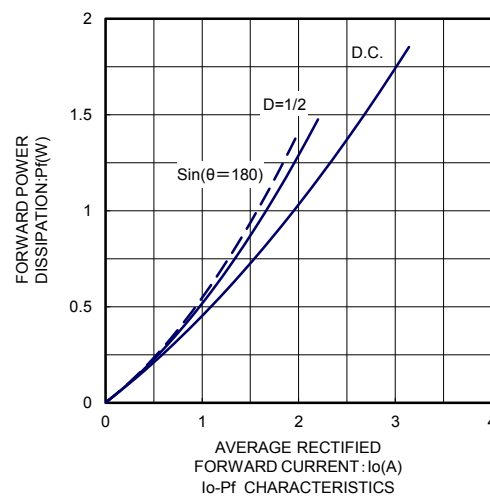
I<sub>FSM</sub> CYCLE CHARACTERISTICS



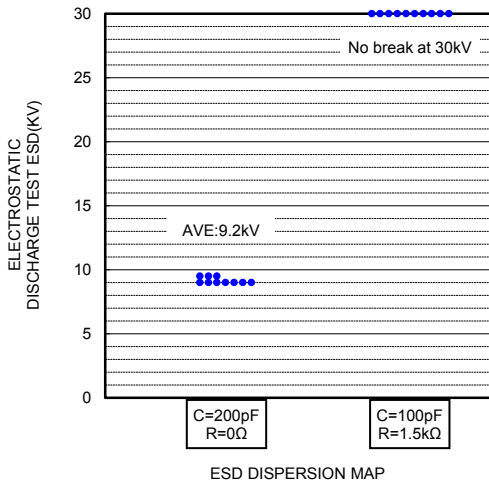
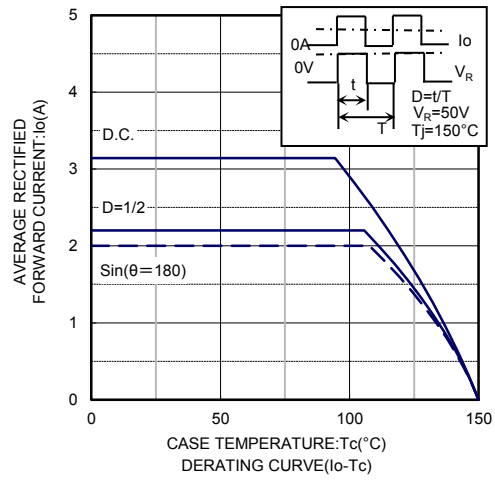
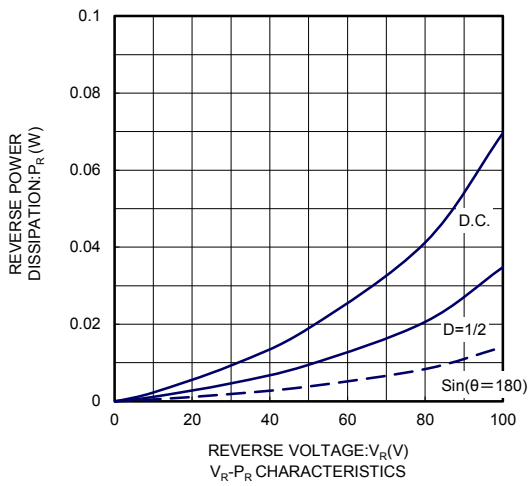
I<sub>FSM</sub>-t CHARACTERISTICS



Rth-t CHARACTERISTICS



I<sub>o</sub>-P<sub>f</sub> CHARACTERISTICS



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