

Schottky Barrier Diode

RB068L-40

● **Applications**

General rectification

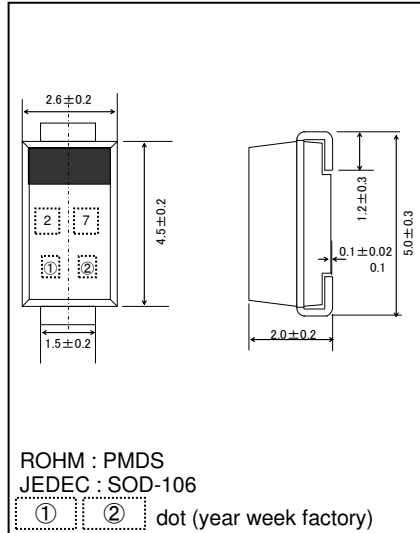
● **Features**

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

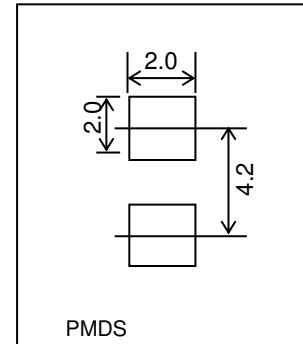
● **Structure**

Silicon epitaxial planer

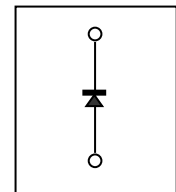
● **Dimensions** (Unit : mm)



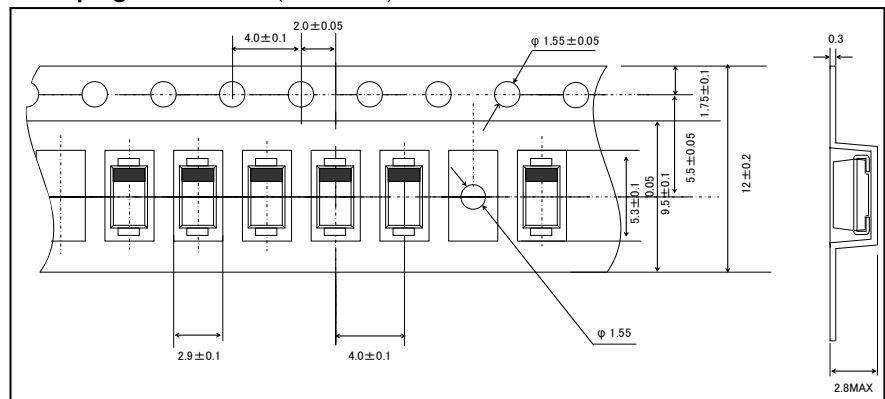
● **Land size figure** (Unit : mm)



● **Structure**



● **Taping dimensions** (Unit : mm)



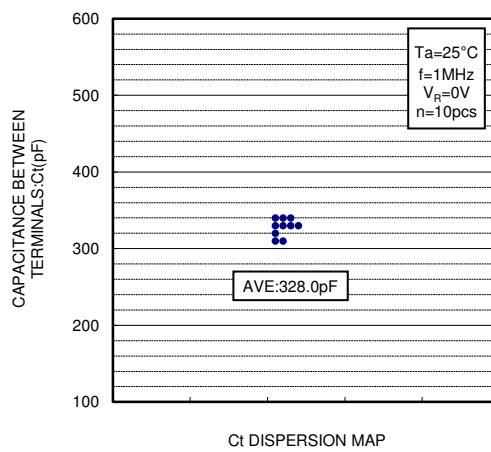
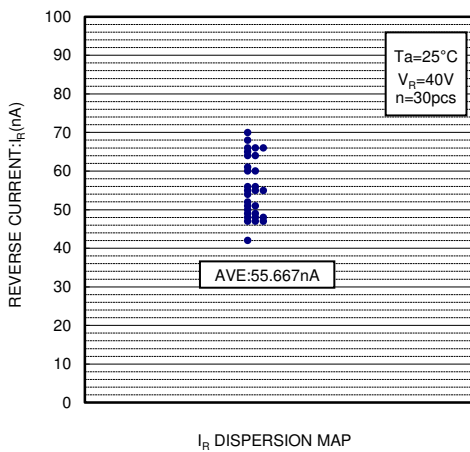
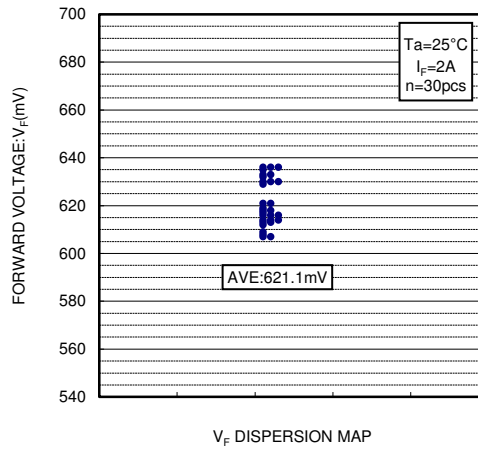
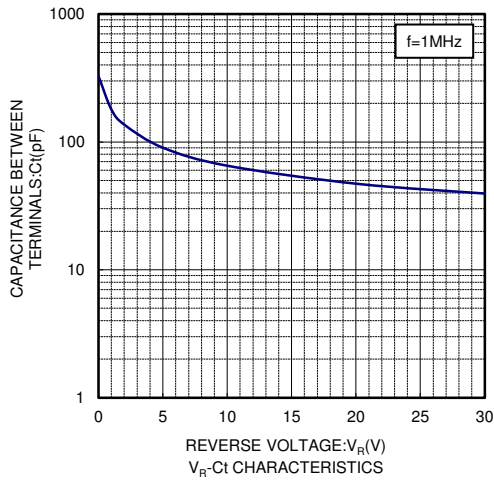
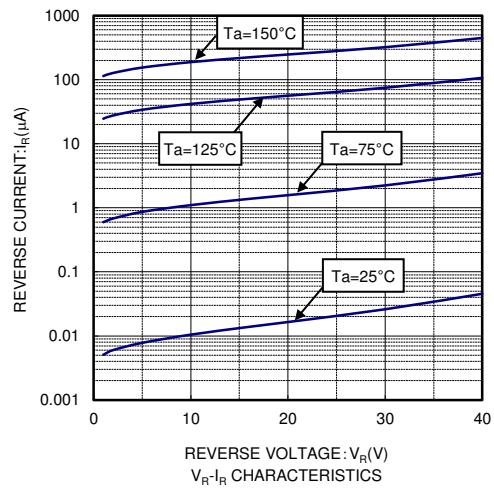
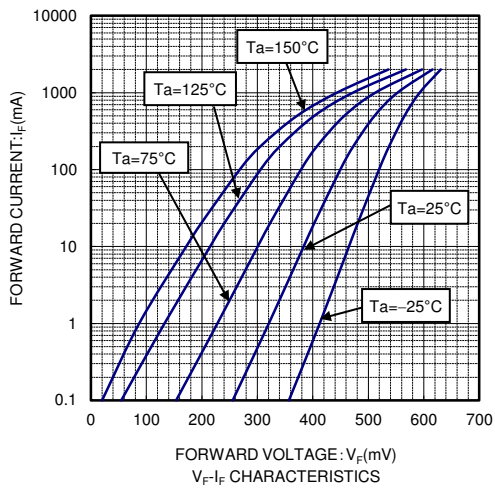
● **Absolute maximum ratings** ($T_a=25^\circ\text{C}$)

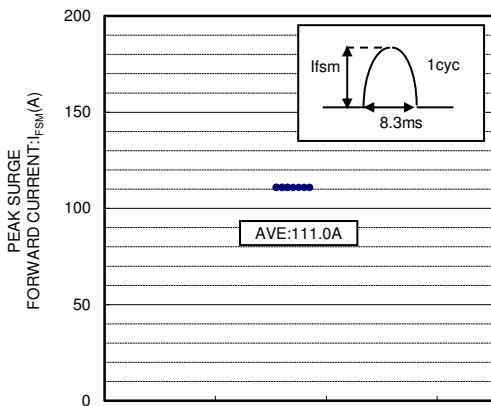
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_o	2	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	40	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +150	$^\circ\text{C}$

(*1) Mounted on epoxy board. 180° Half sine wave

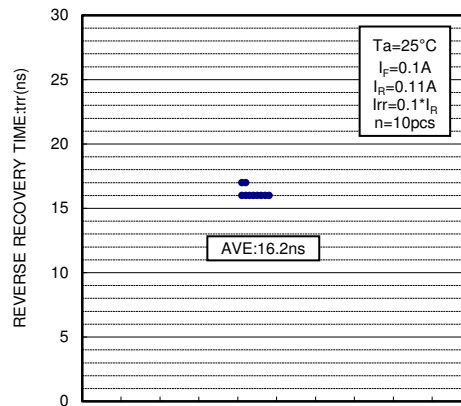
● **Electrical characteristics** ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.69	V	$I_F=2.0\text{A}$
Reverse current	I_R	-	-	1	μA	$V_R=40\text{V}$

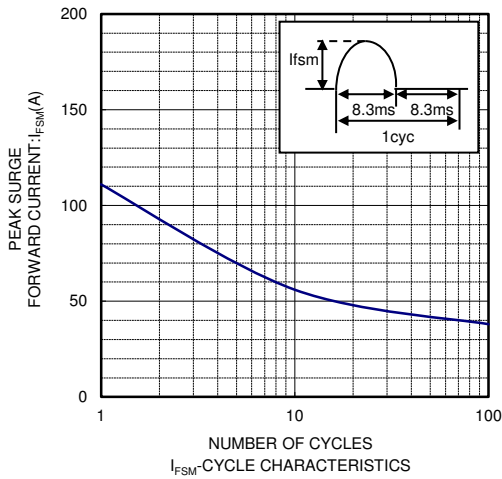




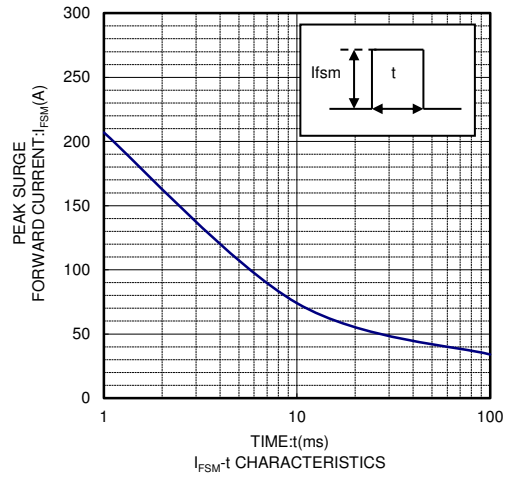
I_{FSM} DISPERSION MAP



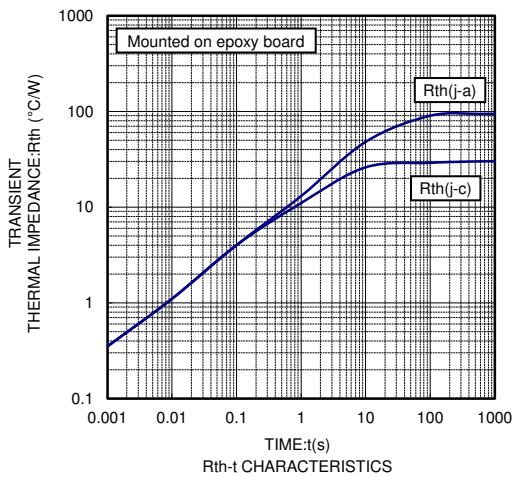
trr DISPERSION MAP



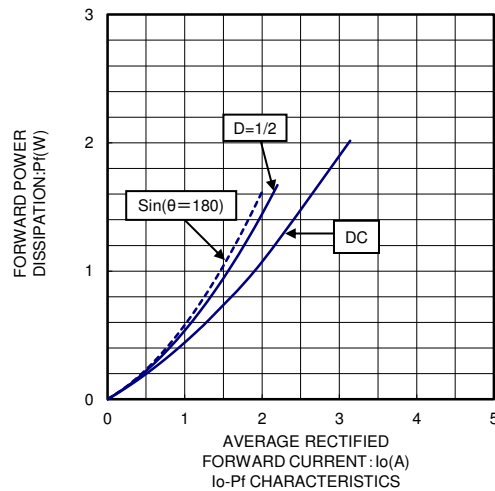
I_{FSM} CYCLE CHARACTERISTICS



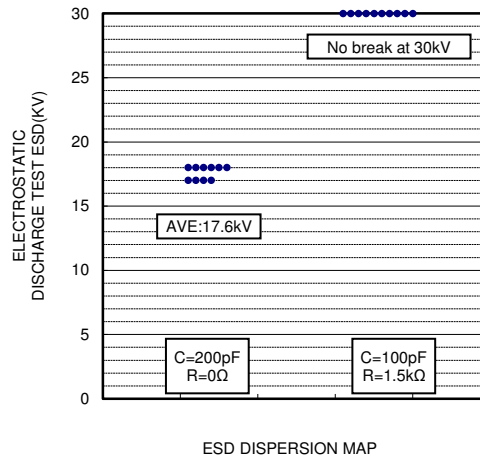
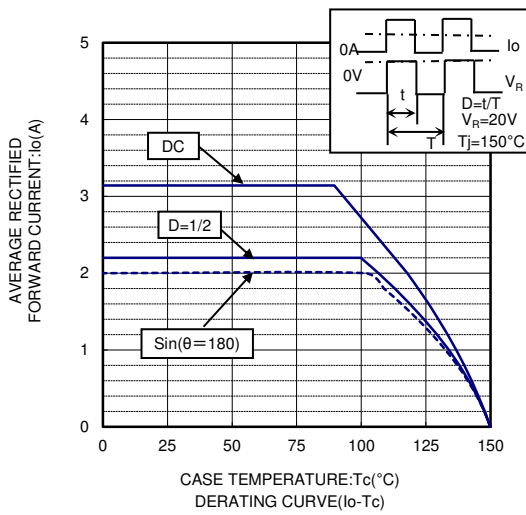
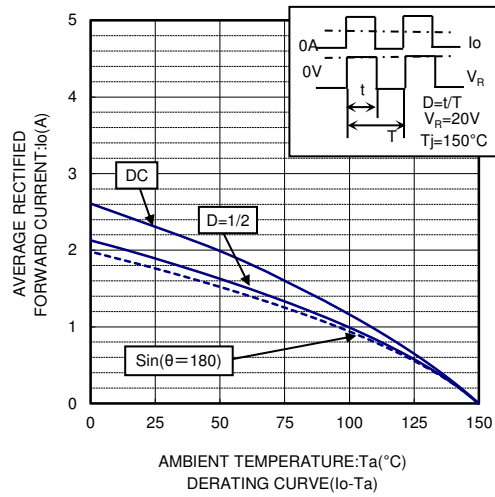
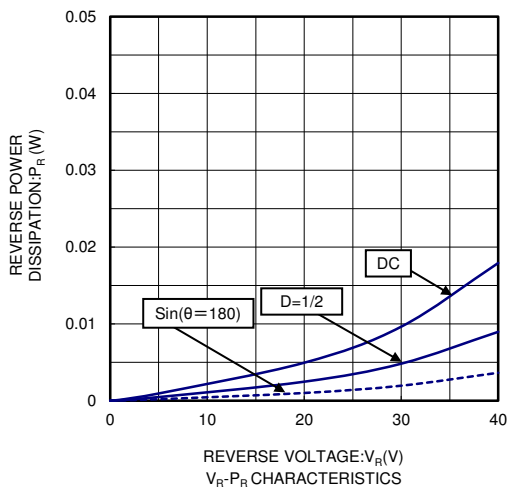
I_{FSM} -t CHARACTERISTICS



Rth-t CHARACTERISTICS



I_o - P_f CHARACTERISTICS



Notes

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