

Schottky Barrier Diode

RB068L-40

●Applications

General rectification

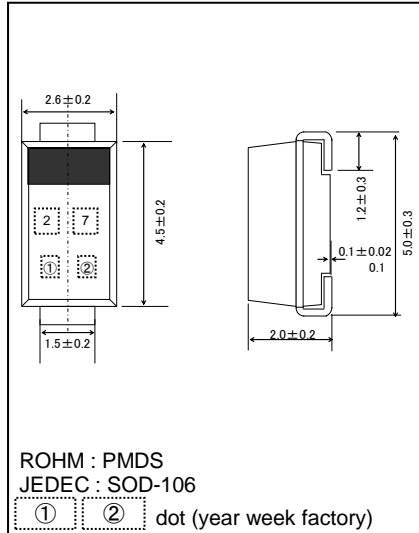
●Features

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

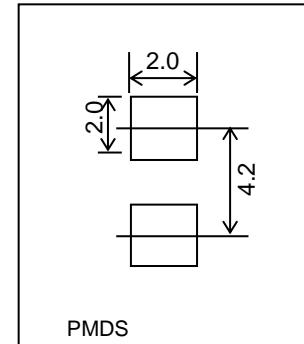
●Structure

Silicon epitaxial planer

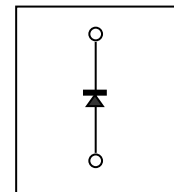
●Dimensions (Unit : mm)



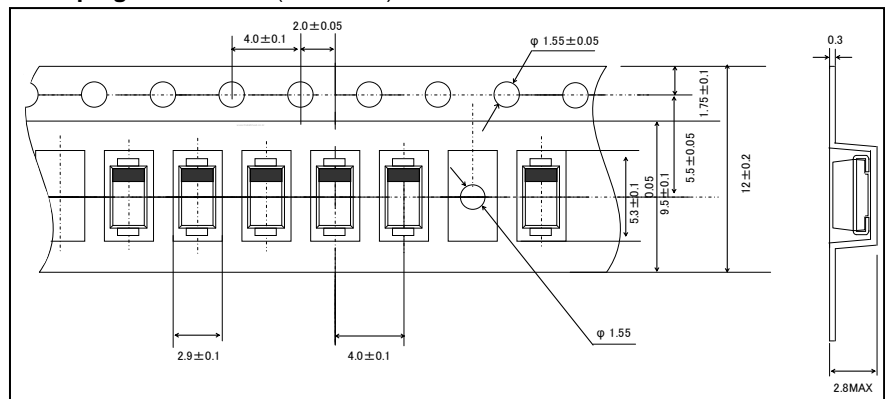
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



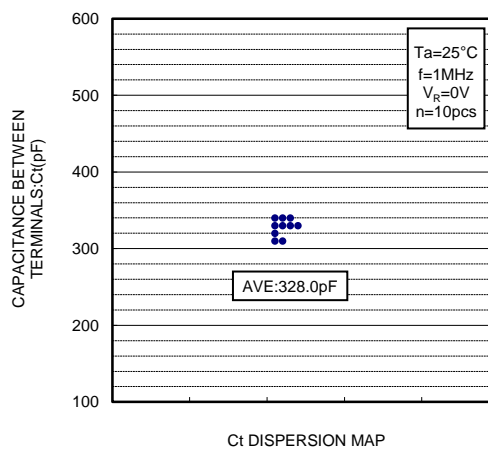
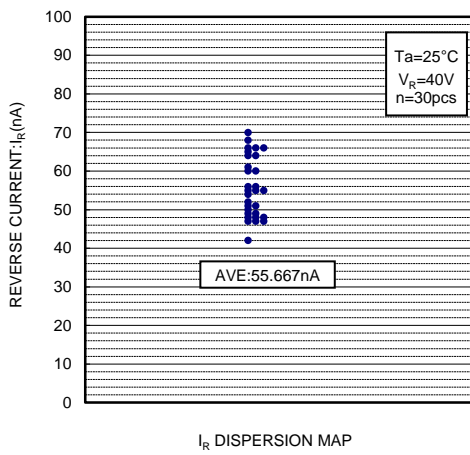
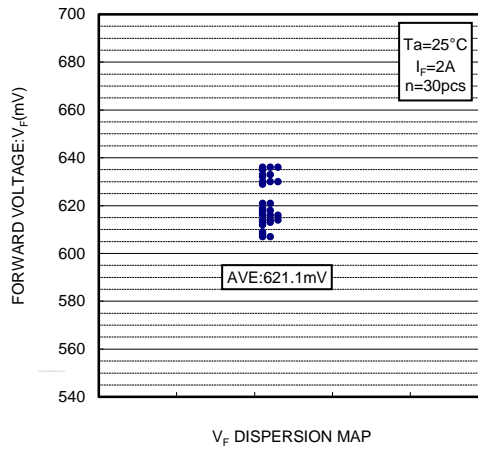
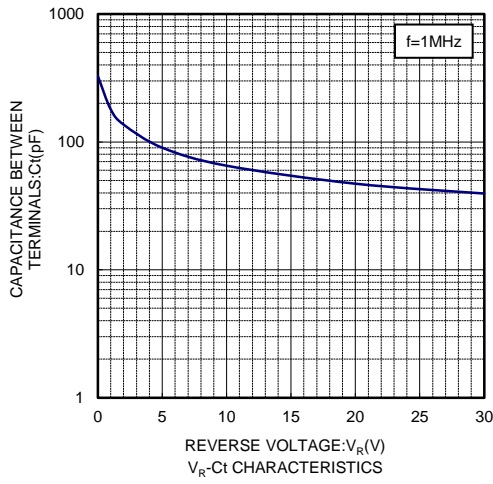
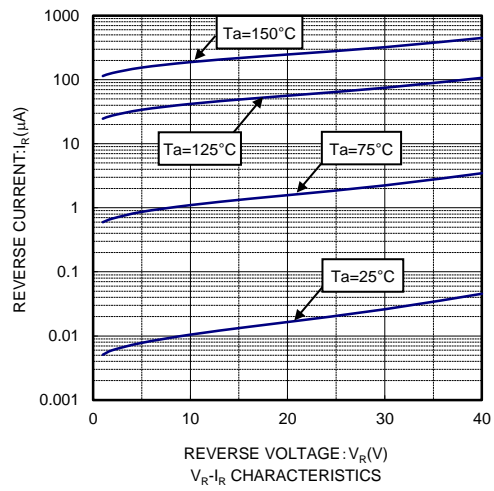
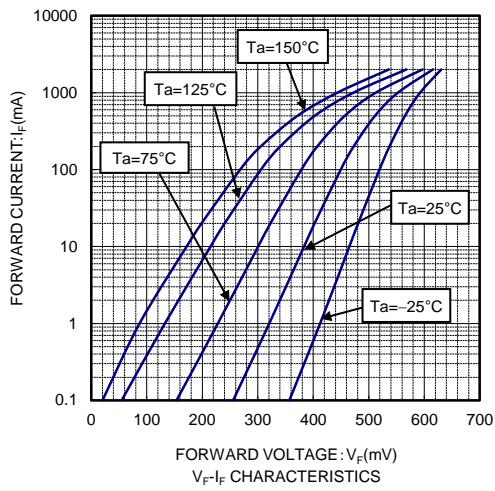
●Absolute maximum ratings (Ta=25°C)

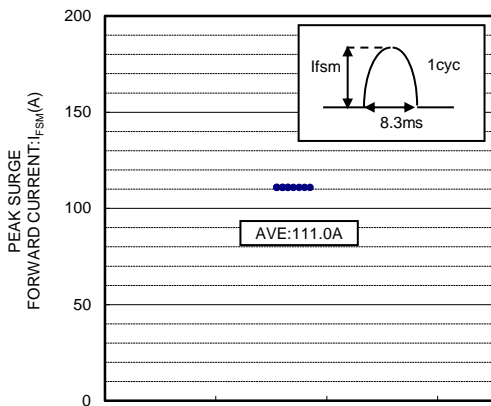
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_o	2	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	40	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +150	°C

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

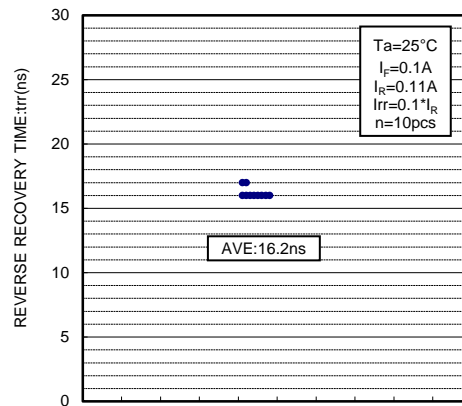
●Electrical characteristics (Ta=25°C)

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

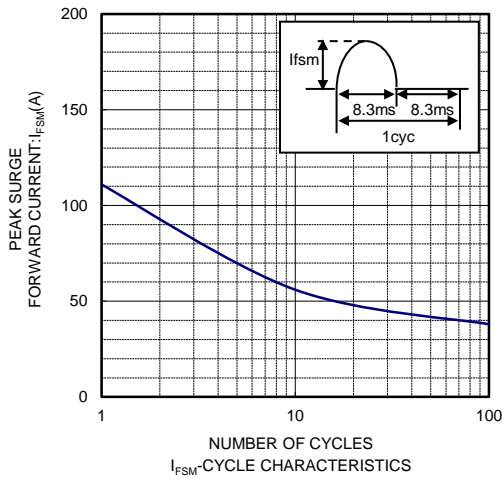




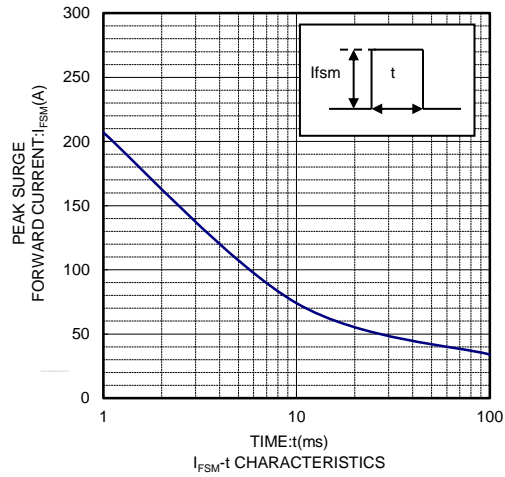
I_{FSM} DISPERSION MAP



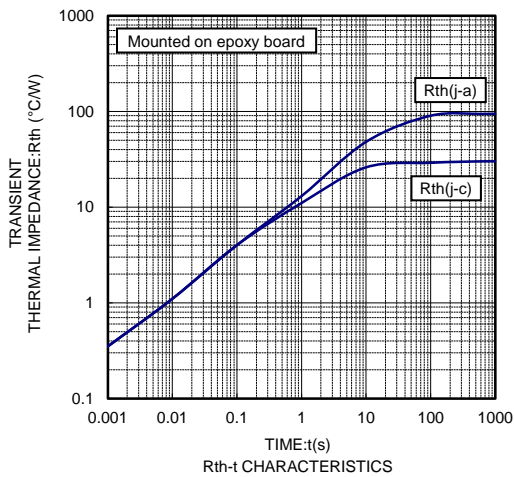
trr DISPERSION MAP



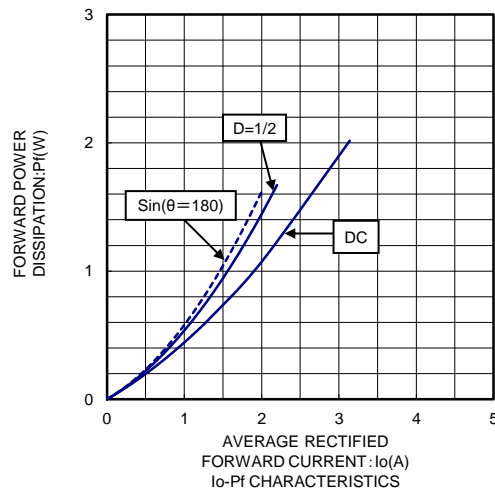
I_{FSM} CYCLE CHARACTERISTICS



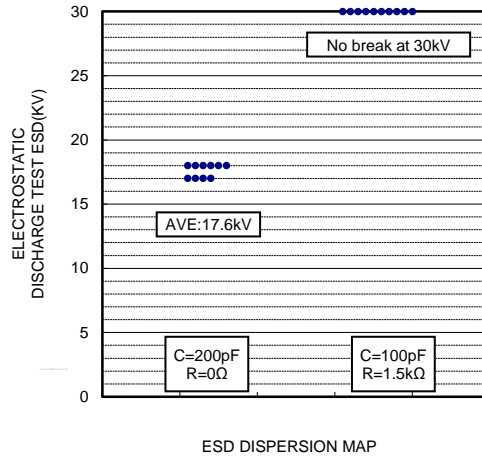
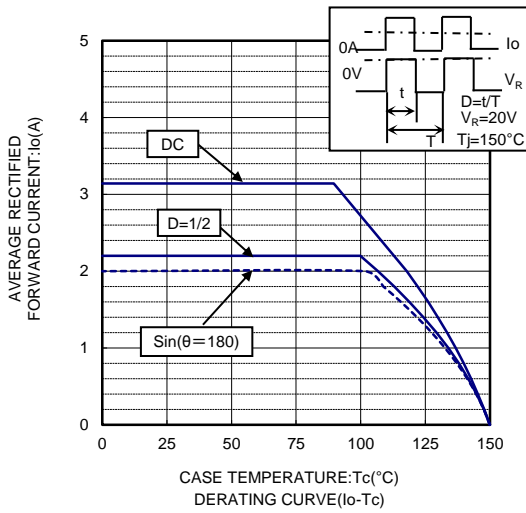
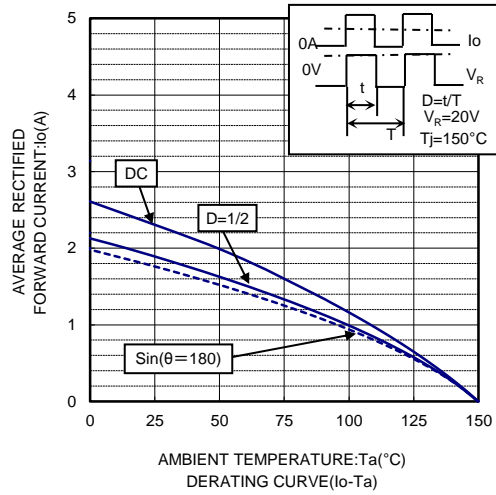
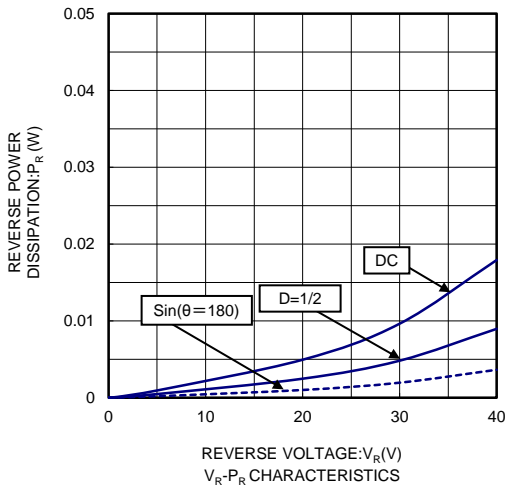
I_{FSM} -t CHARACTERISTICS



Rth-t CHARACTERISTICS



I_o -P_f CHARACTERISTICS



Notes

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