

# Schottky Barrier Diode

**RB068L-40**

● **Applications**

General rectification

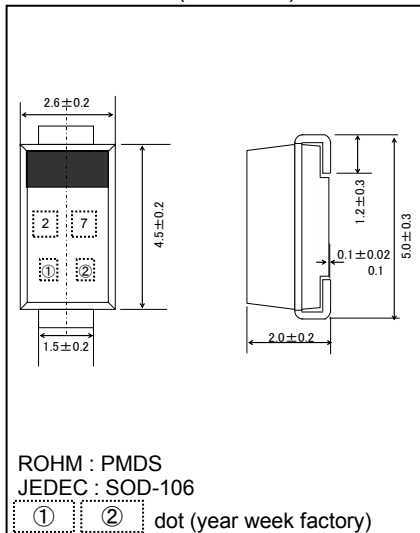
● **Features**

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

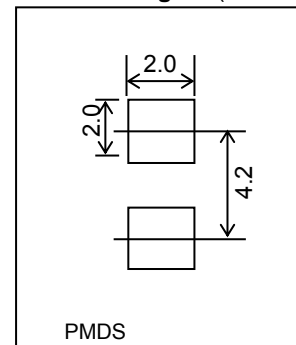
● **Structure**

Silicon epitaxial planer

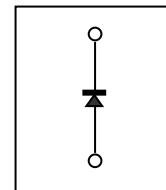
● **Dimensions (Unit : mm)**



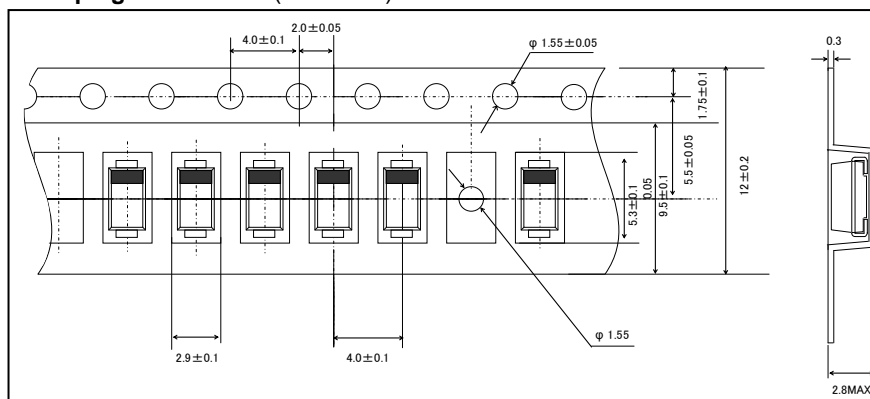
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



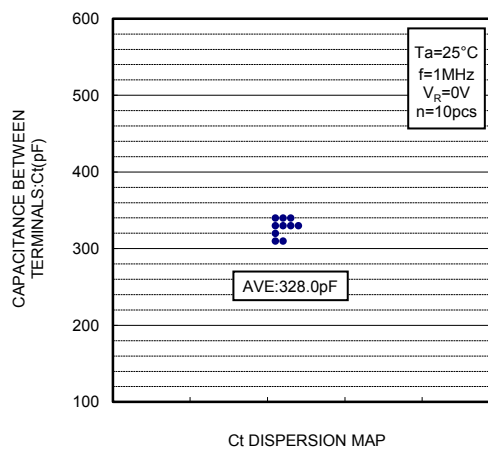
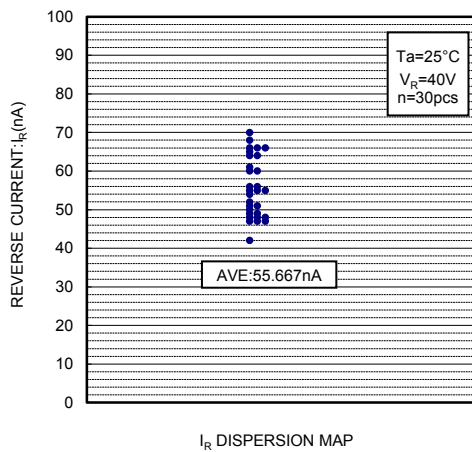
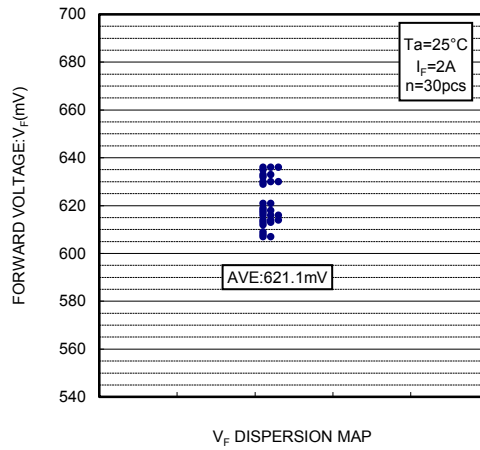
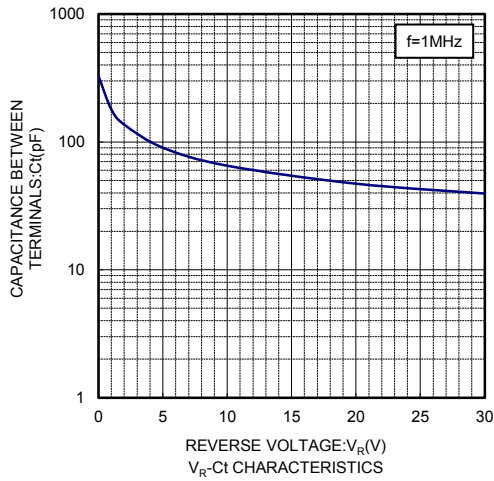
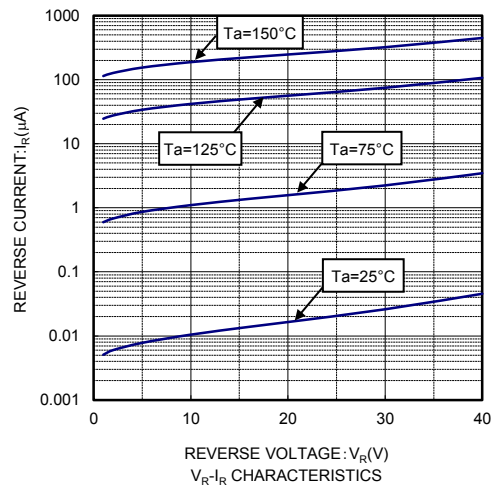
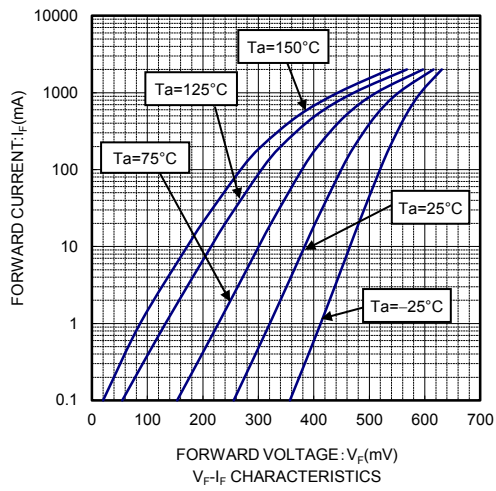
● **Absolute maximum ratings (Ta=25°C)**

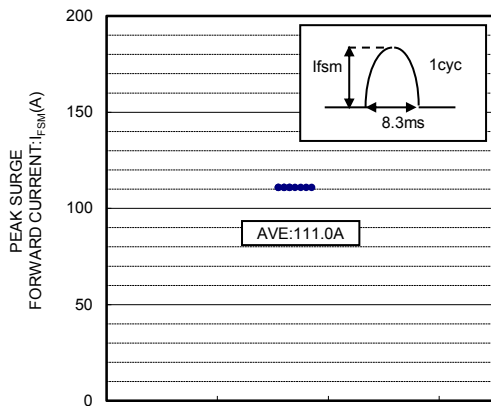
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current (*1)	$I_o$	2	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	40	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

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

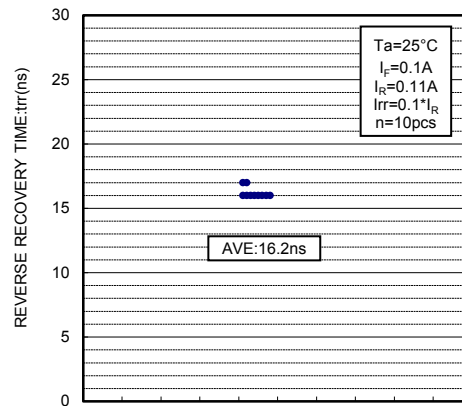
● **Electrical characteristics (Ta=25°C)**

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

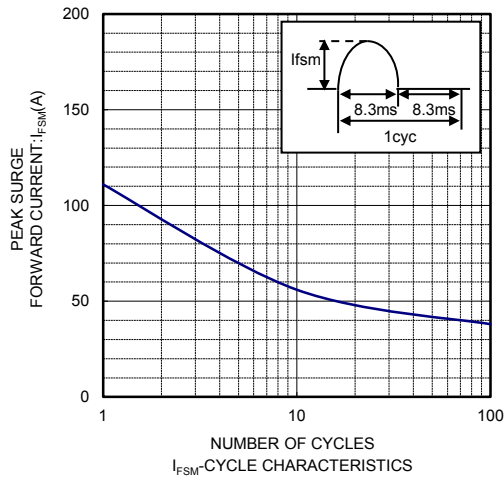




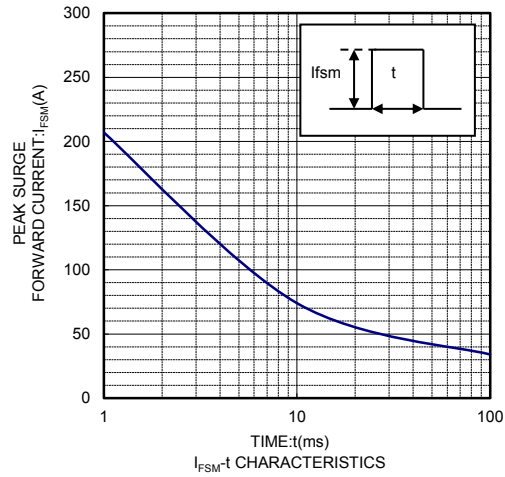
$I_{FSM}$  DISPERSION MAP



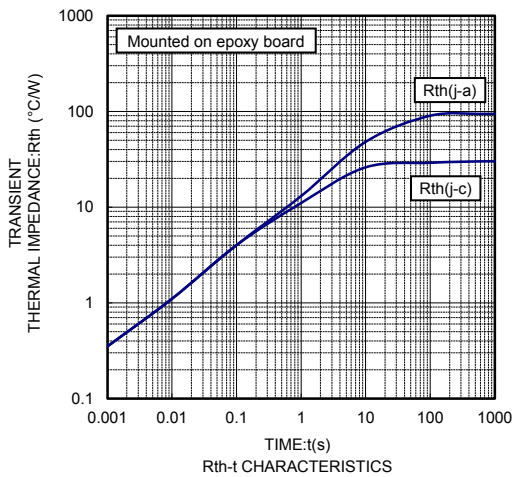
trr DISPERSION MAP



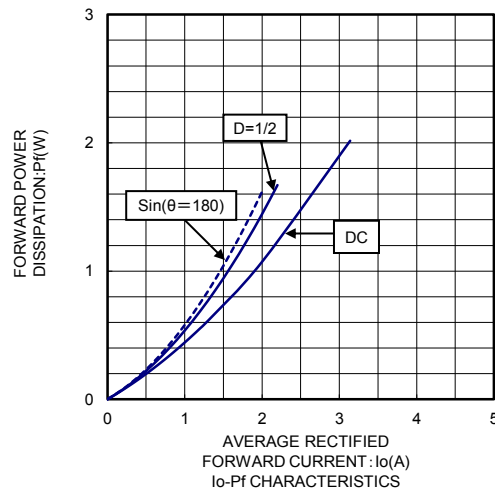
NUMBER OF CYCLES  
 $I_{FSM}$  CYCLE CHARACTERISTICS



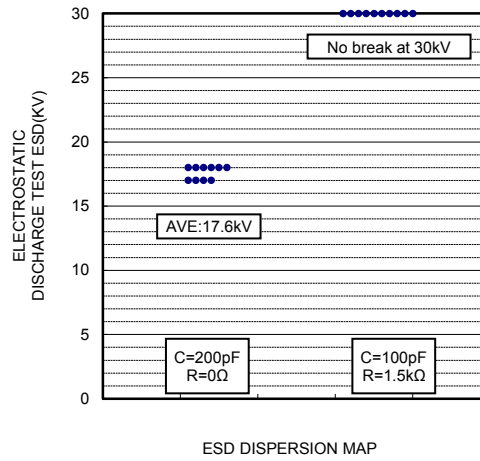
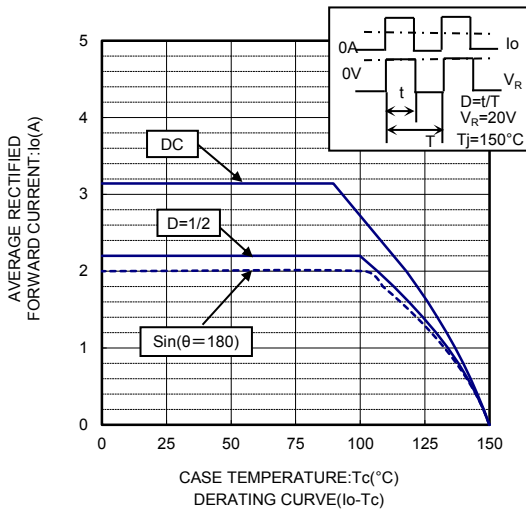
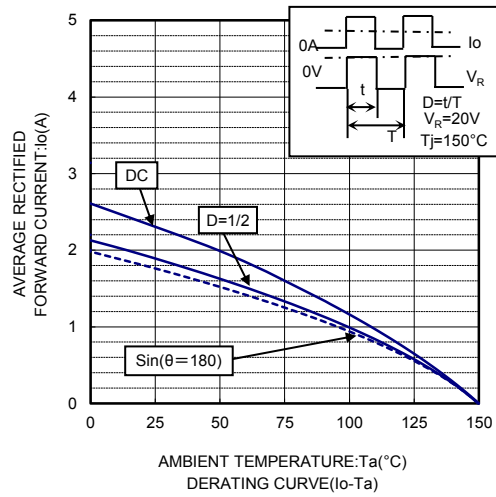
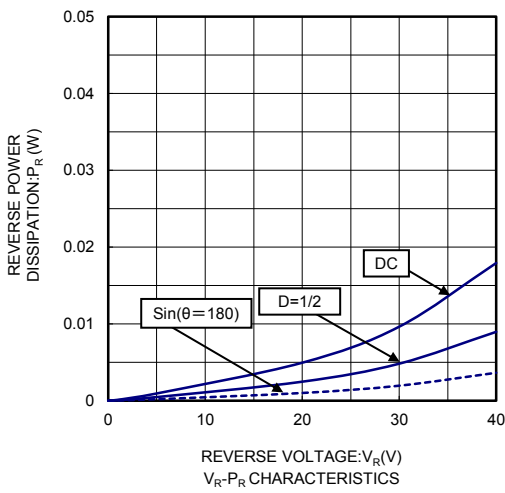
TIME:t(ms)  
 $I_{FSM}$ -t CHARACTERISTICS



TIME:t(s)  
Rth-t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT :  $I_o$ (A)  
 $I_o$ -Pf CHARACTERISTICS



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