

# Schottky Barrier Diode

**RB080L-30**

## ●Applications

General rectification

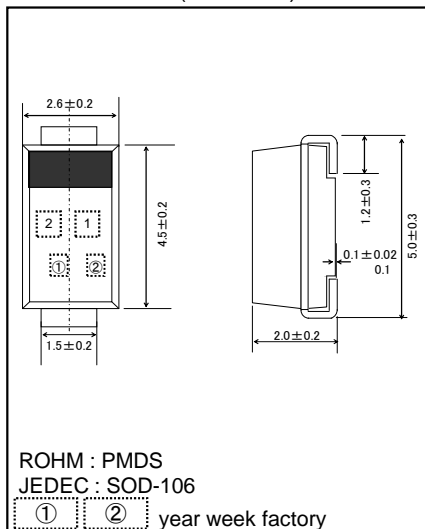
## ●Features

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

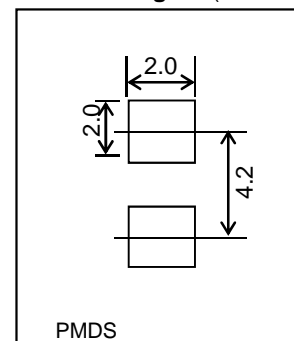
## ●Structure

Silicon epitaxial planer

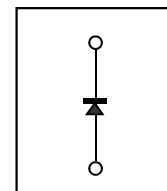
## ●Dimensions (Unit : mm)



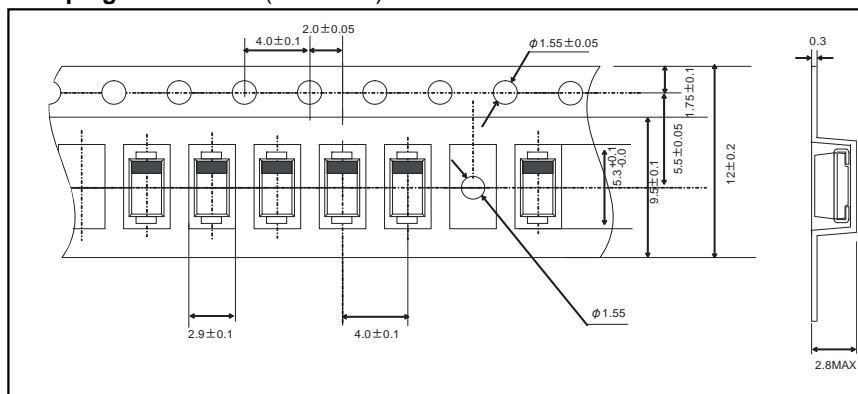
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping dimensions (Unit : mm)



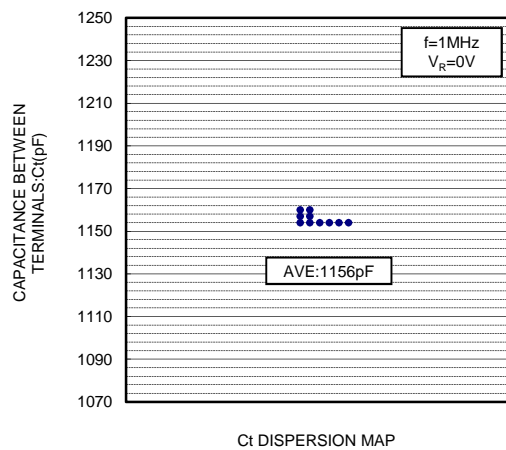
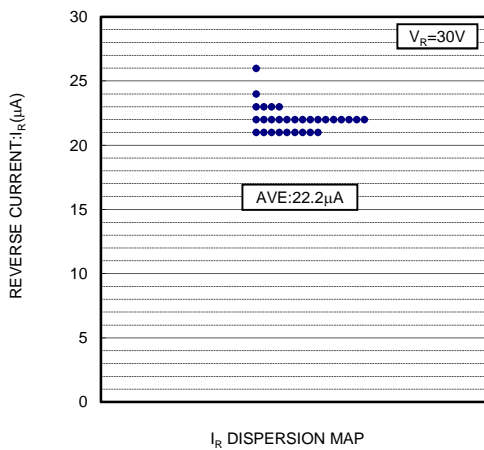
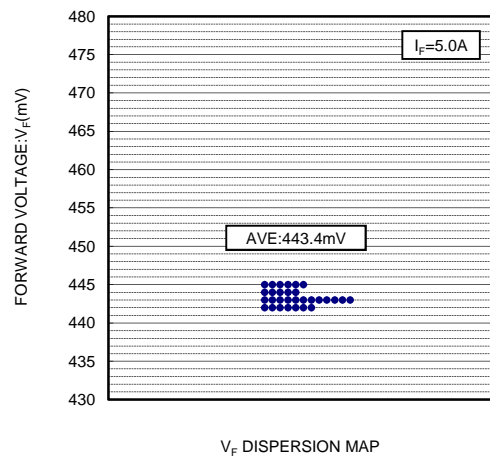
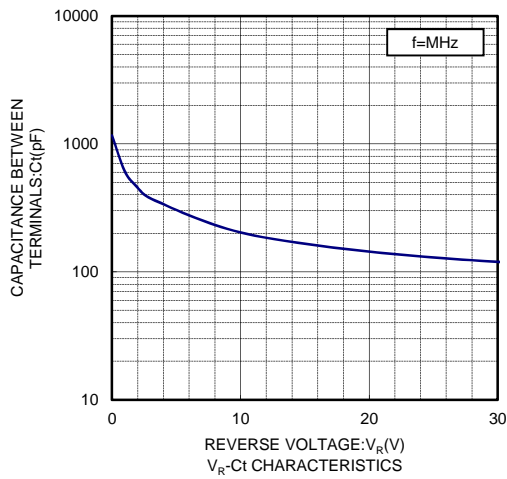
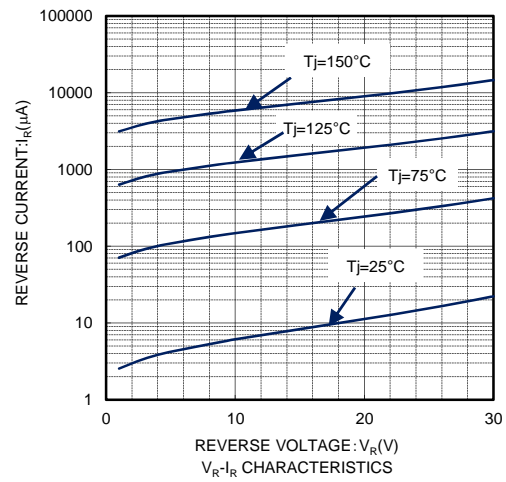
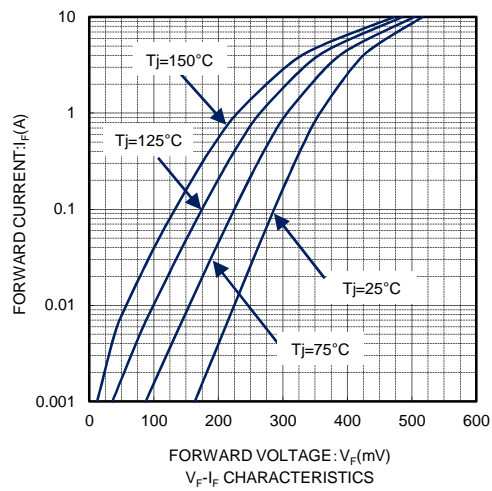
## ●Absolute maximum ratings (Ta=25°C)

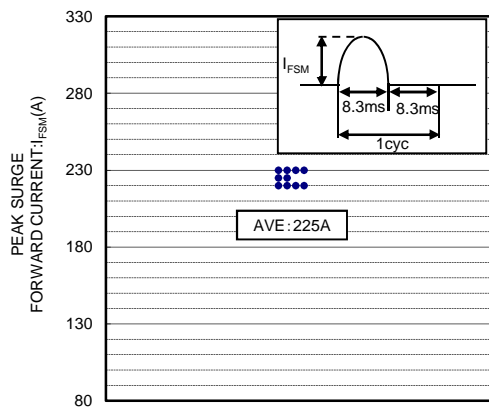
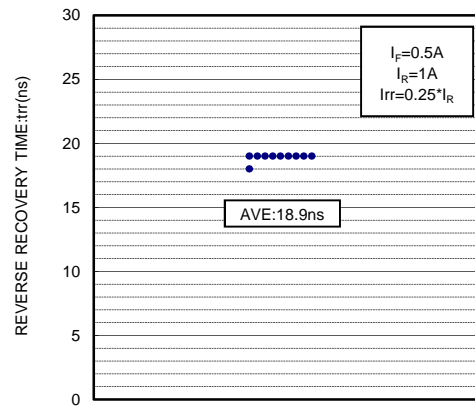
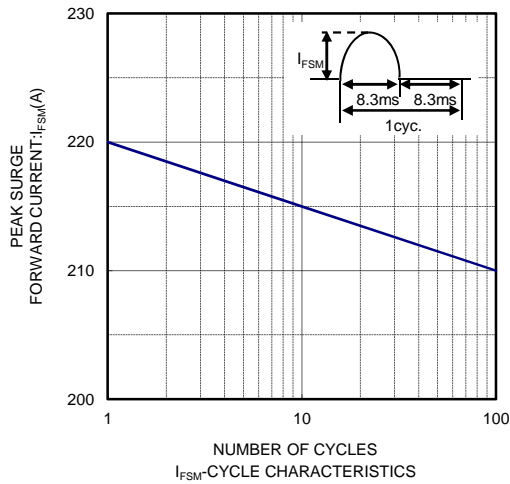
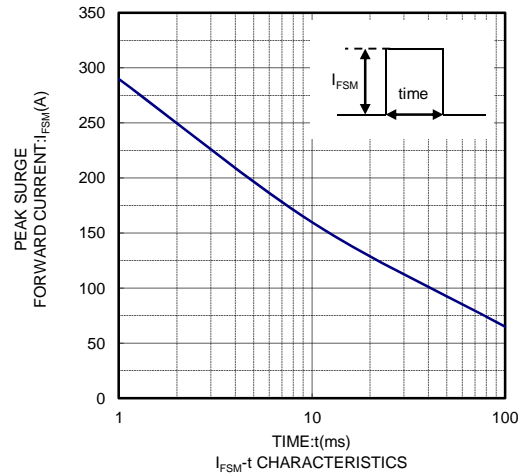
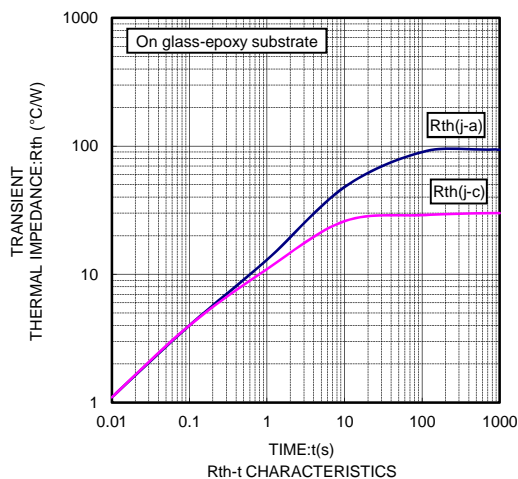
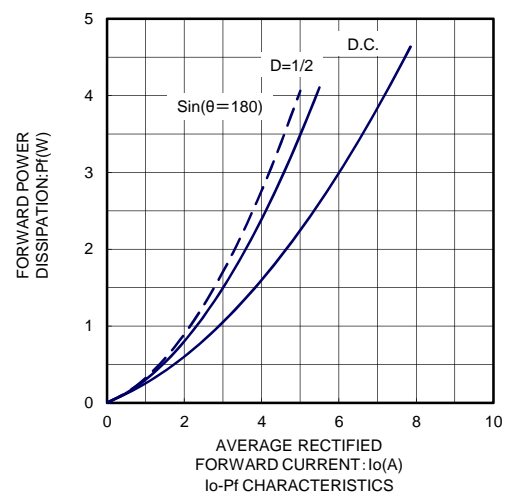
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current (*1)	$I_o$	5	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	70	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

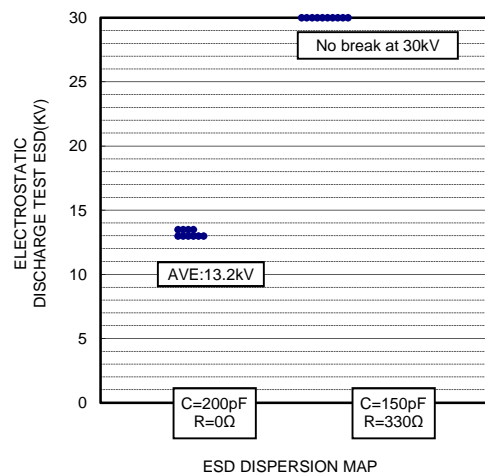
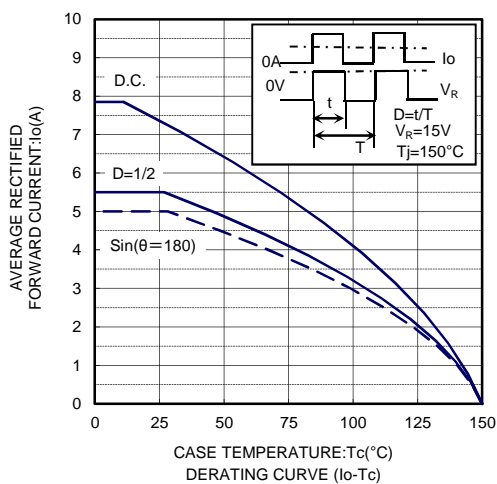
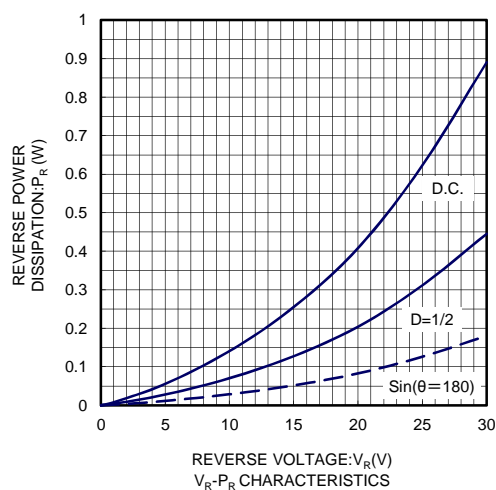
 (\*1) Alumina substrate at the time of assemble 180° Half Sine Wave,  $T_c=100^{\circ}\text{C}$  MAX.

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.51	V	$I_F=5.0\text{A}$
Reverse current	$I_R$	-	-	150	$\mu\text{A}$	$V_R=30\text{V}$



 $I_{FSM}$  DISPERSION MAP $t_{rr}$  DISPERSION MAP $I_{FSM}$ -CYCLE CHARACTERISTICS $I_{FSM}$ - $t$  CHARACTERISTICS $R_{th}$ - $t$  CHARACTERISTICS $I_o$ - $P_f$  CHARACTERISTICS



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