

Schottky Barrier Diode

RB080L-30

●Applications

General rectification

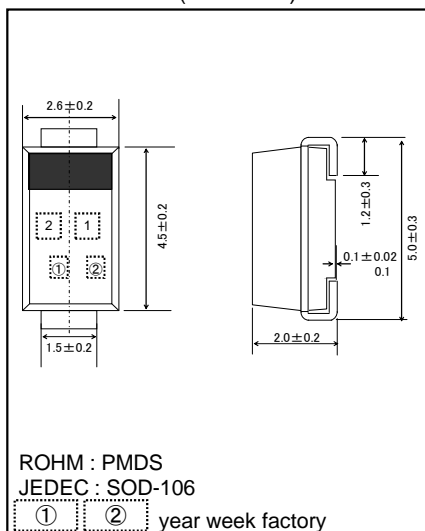
●Features

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

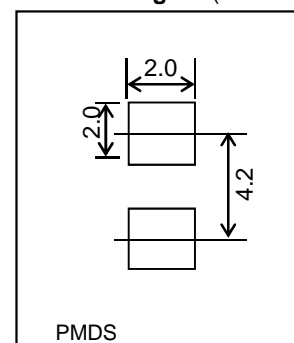
●Structure

Silicon epitaxial planer

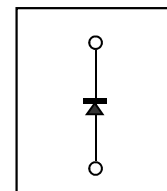
●Dimensions (Unit : mm)



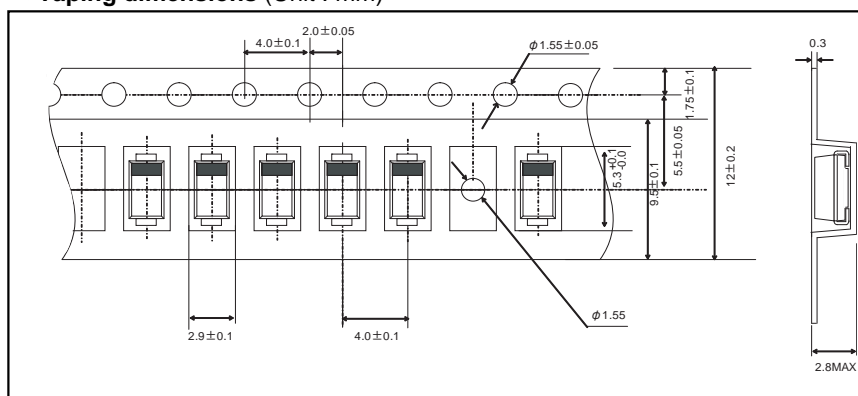
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



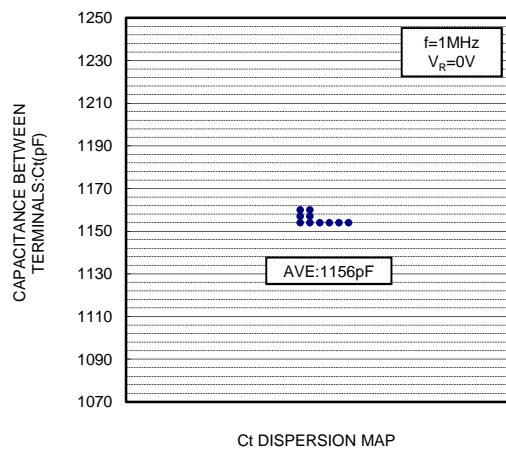
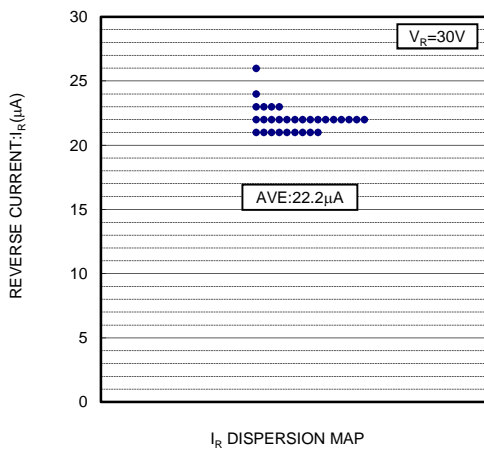
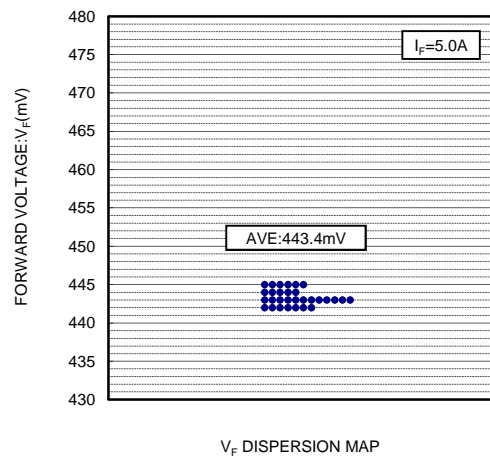
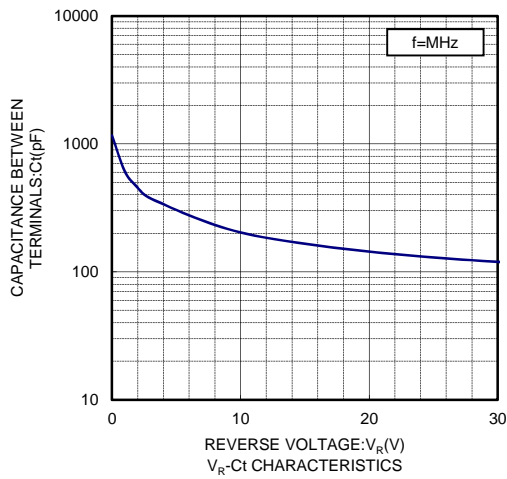
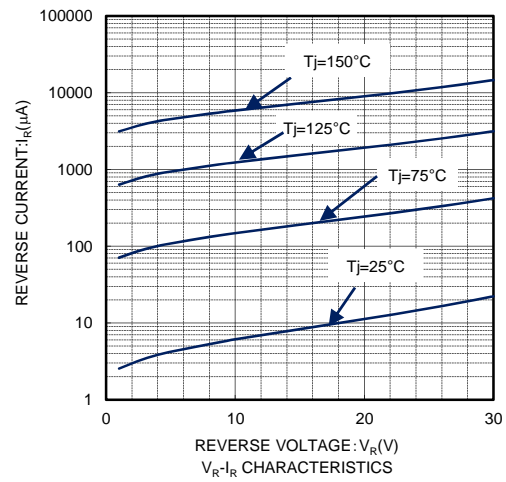
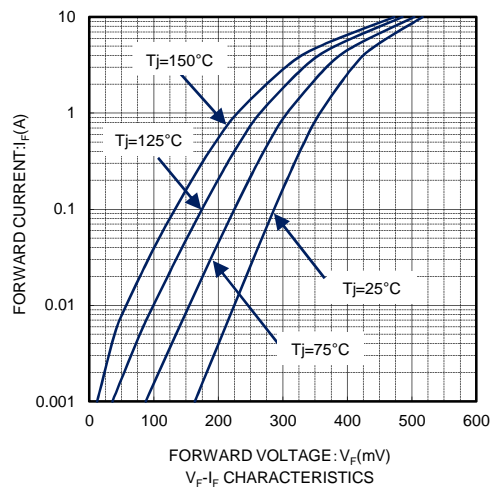
●Absolute maximum ratings (Ta=25°C)

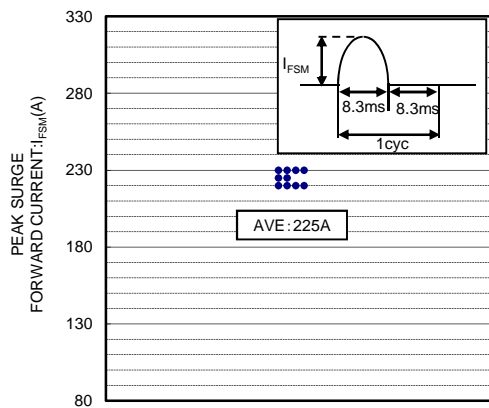
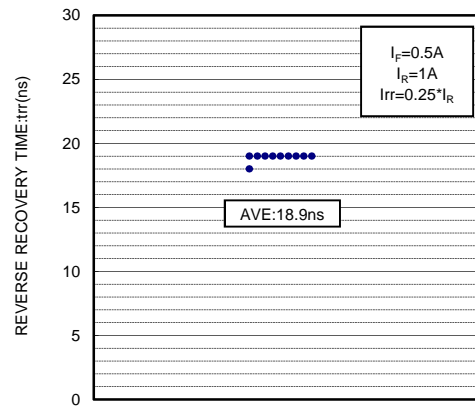
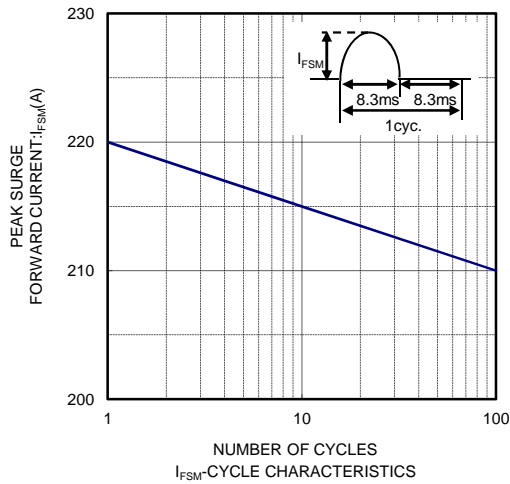
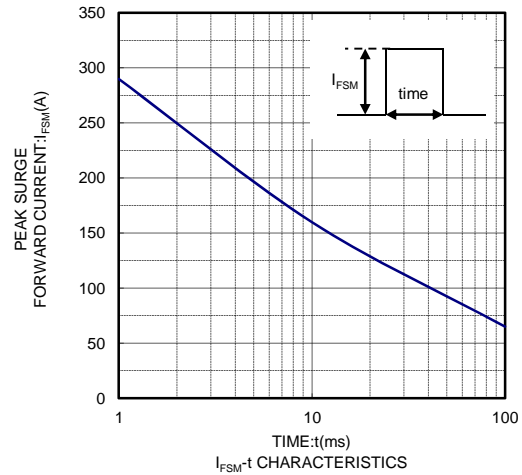
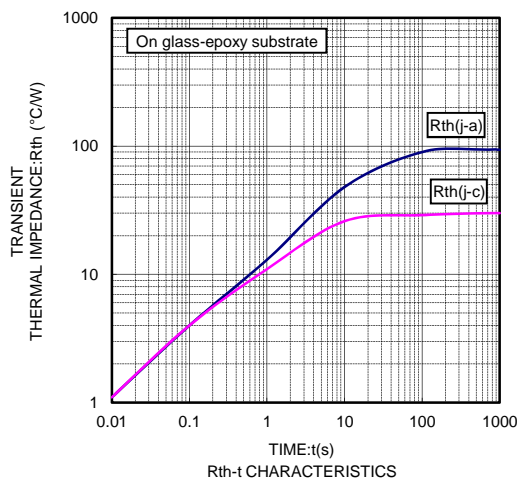
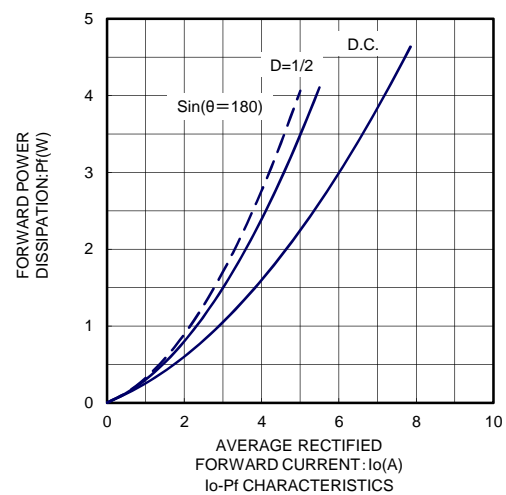
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	5	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

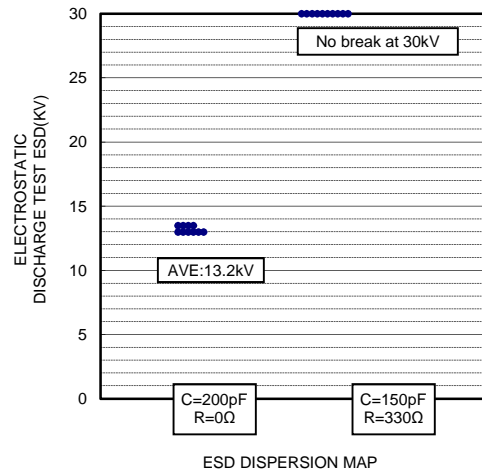
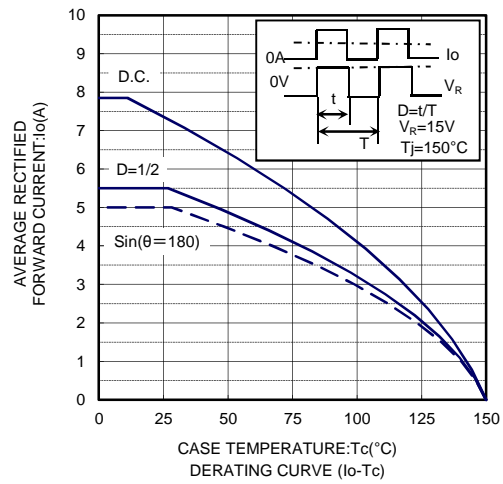
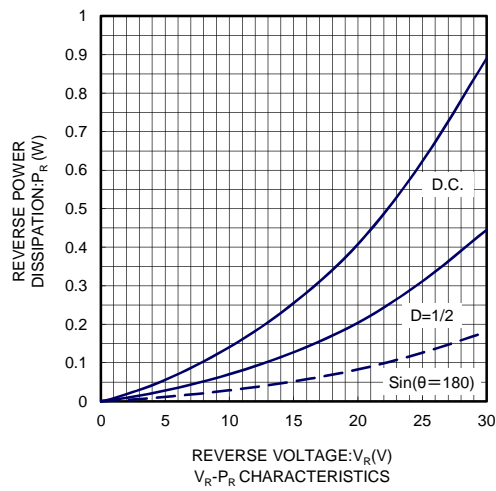
 (*1) Alumina substrate at the time of assemble 180° Half Sine Wave, $T_c=100^{\circ}\text{C}$ MAX.

●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	μA	$V_R=30\text{V}$



 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



Notes

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