

Schottky Barrier Diode

RB080L-30

● **Applications**

General rectification

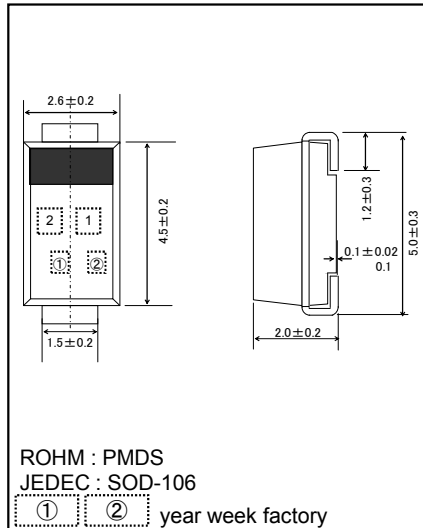
● **Features**

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

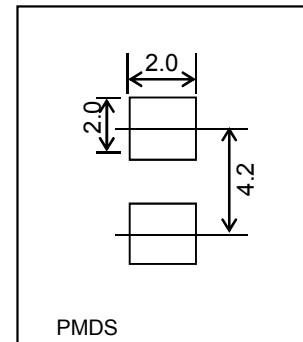
● **Structure**

Silicon epitaxial planer

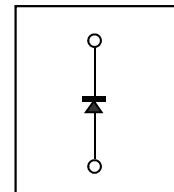
● **Dimensions (Unit : mm)**



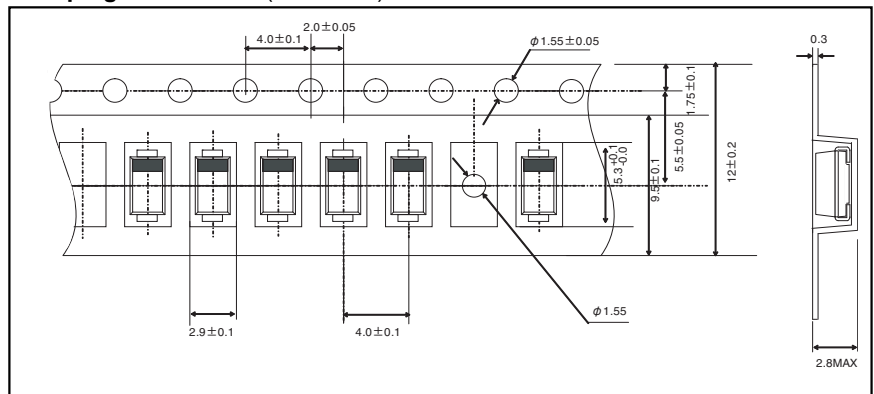
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



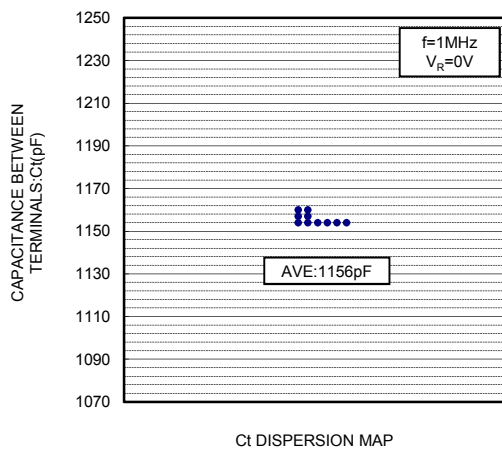
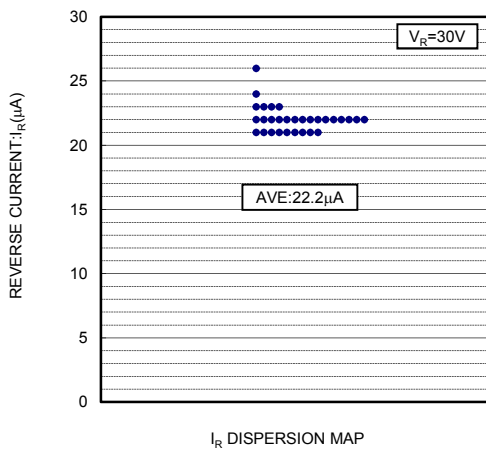
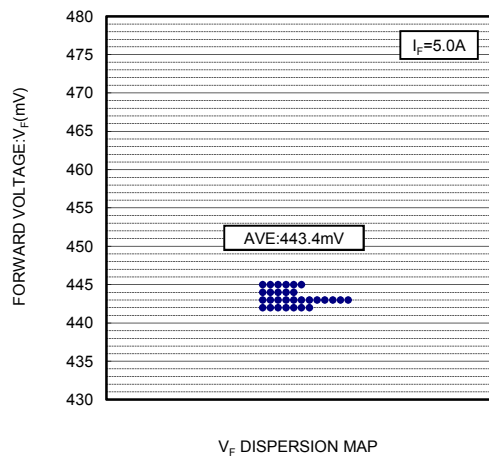
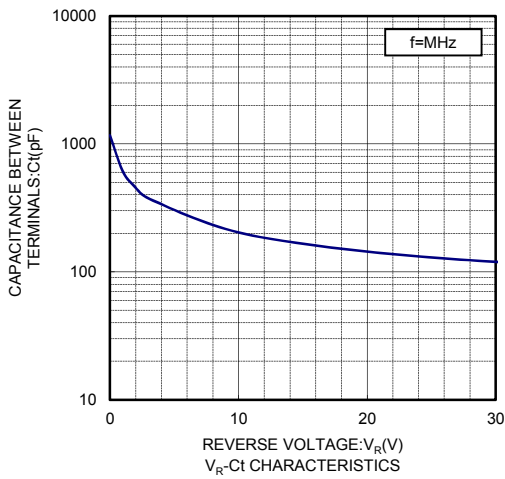
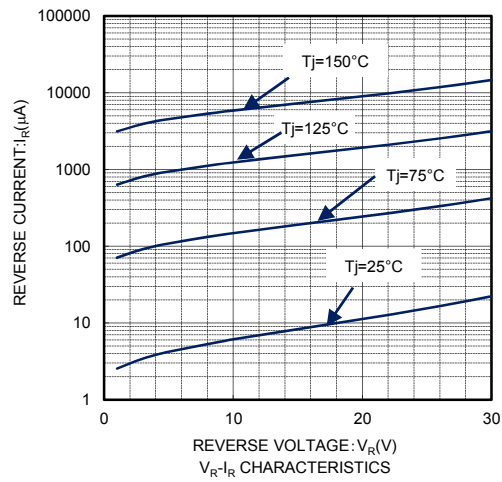
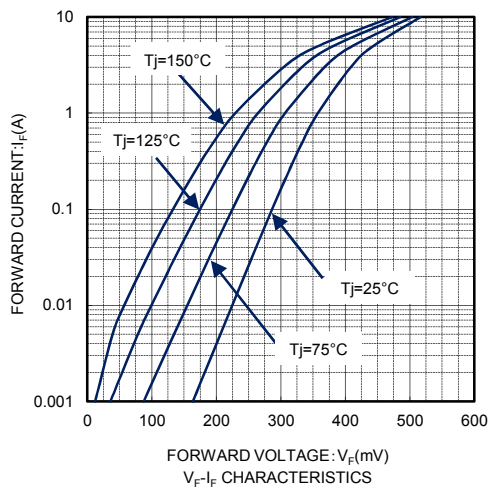
● **Absolute maximum ratings (Ta=25°C)**

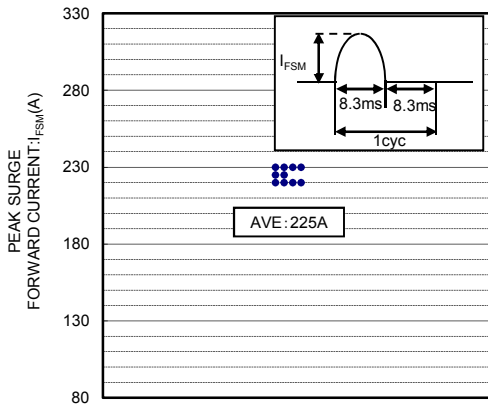
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	5	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

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

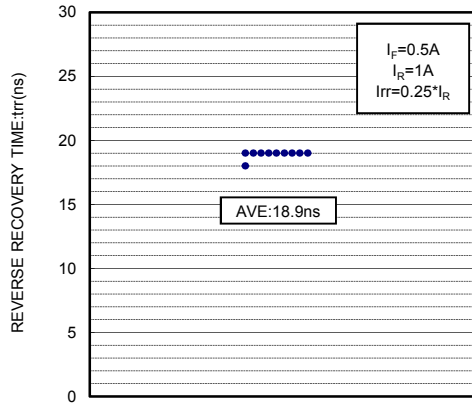
● **Electrical characteristics (Ta=25°C)**

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

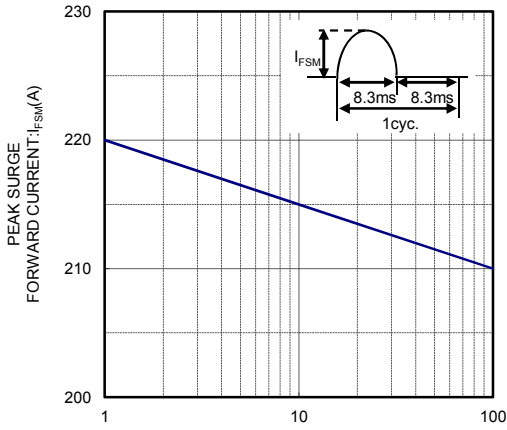




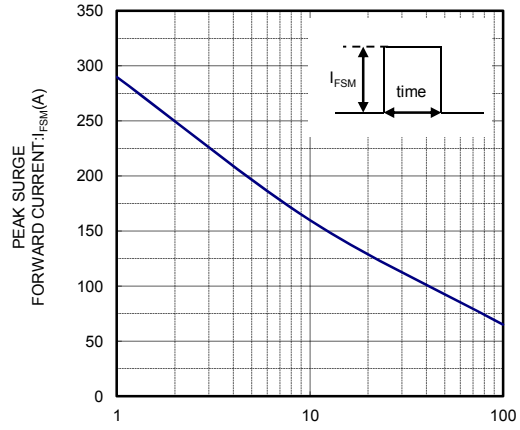
I_{FSM} DISPERSION MAP



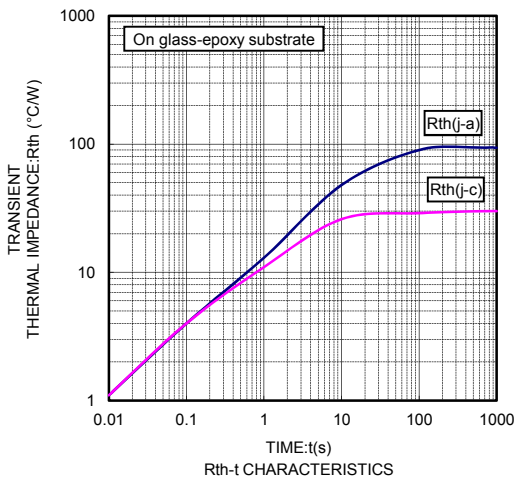
trr DISPERSION MAP



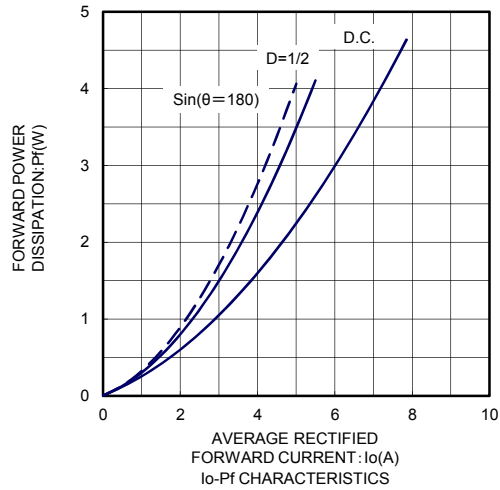
I_{FSM} -CYCLE CHARACTERISTICS



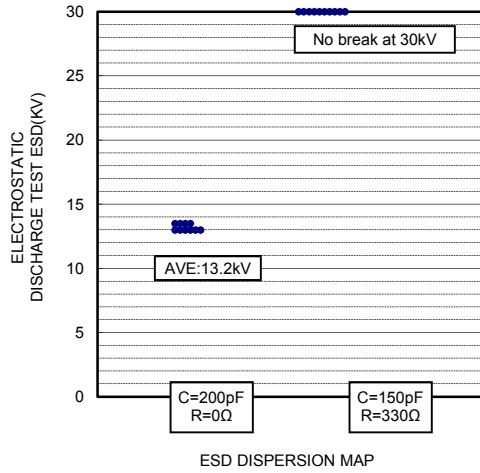
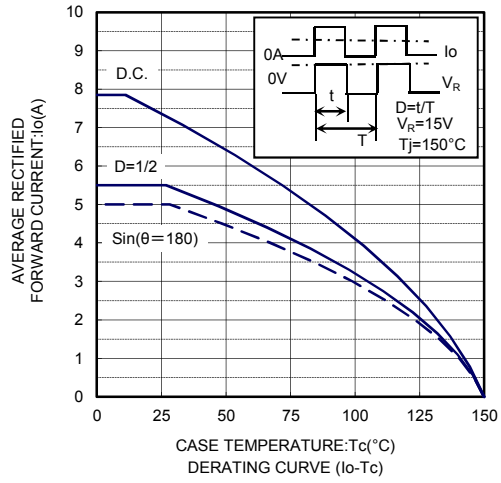
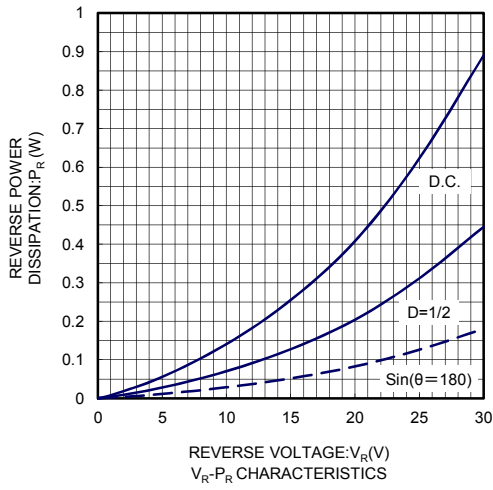
I_{FSM} -t CHARACTERISTICS



Rth-t CHARACTERISTICS



I_o -Pf CHARACTERISTICS



Notes

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