

# Schottky Barrier Diode

RB055L-30

● **Applications**

General rectification

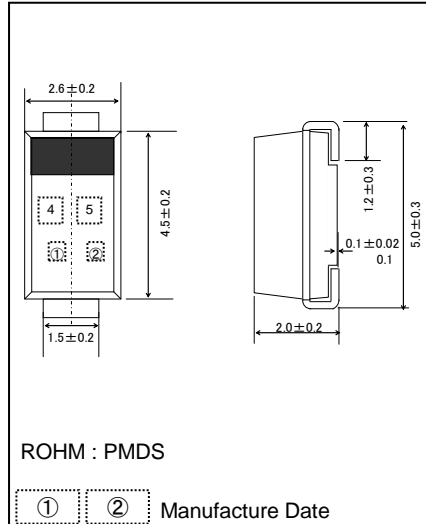
● **Features**

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

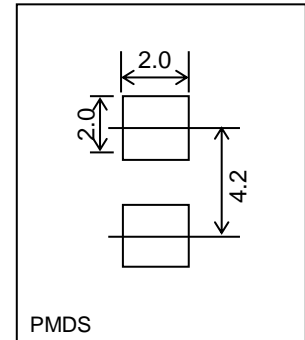
● **Construction**

Silicon epitaxial planer

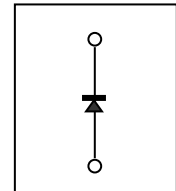
● **Dimensions (Unit : mm)**



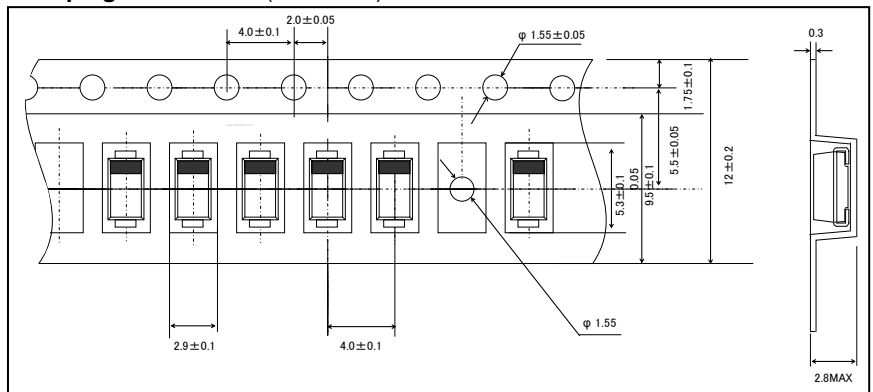
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



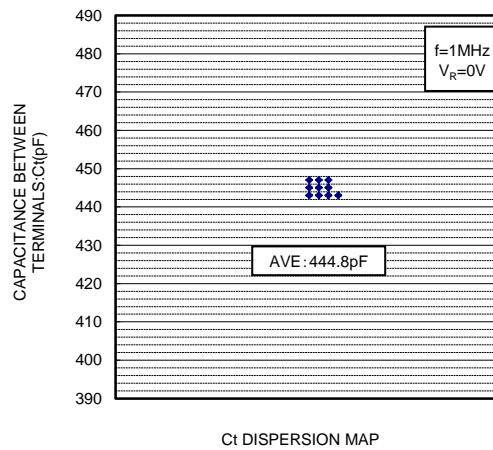
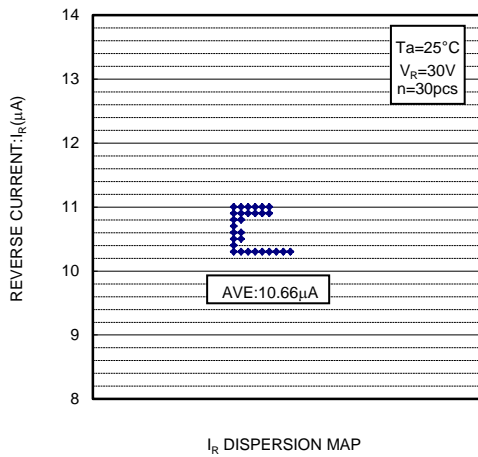
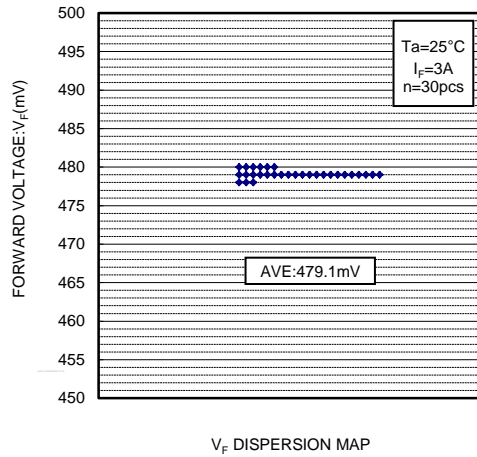
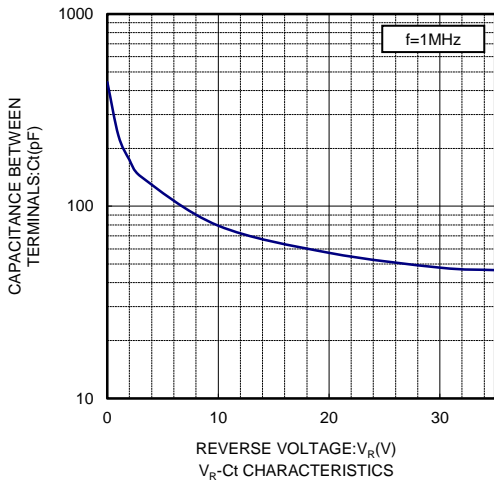
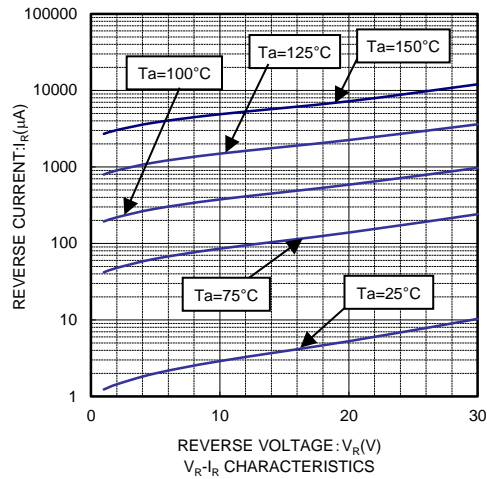
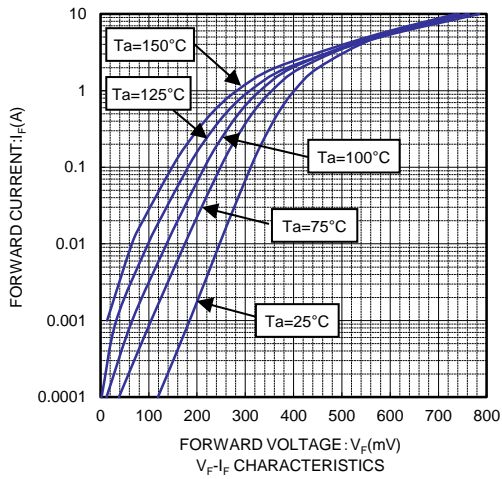
● **Absolute maximum ratings (Ta=25°C)**

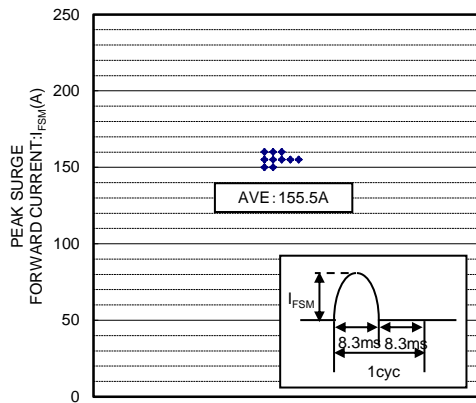
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current (*1)	$I_o$	3	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	55	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

(\*1) Mounted on Alumina board,  $T_c=110^\circ\text{C MAX.}$

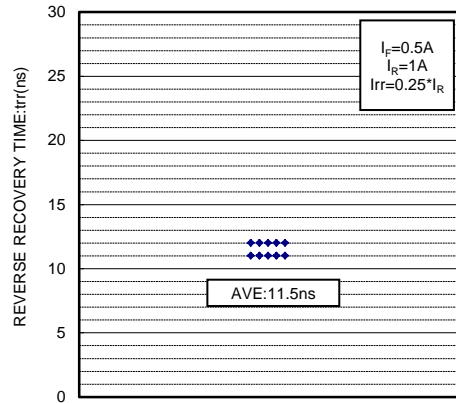
● **Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.55	V	$I_F=3.0\text{A}$
Reverse current	$I_R$	-	-	50	$\mu\text{A}$	$V_R=30\text{V}$

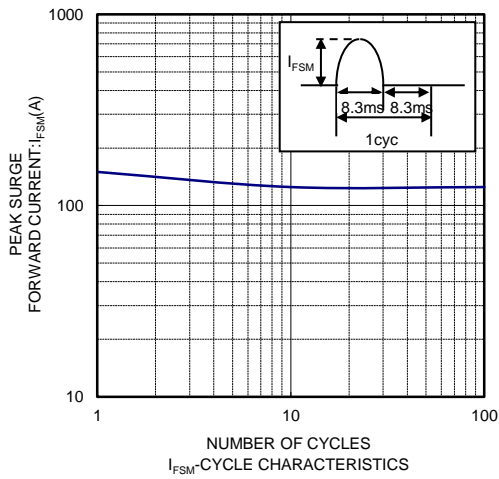




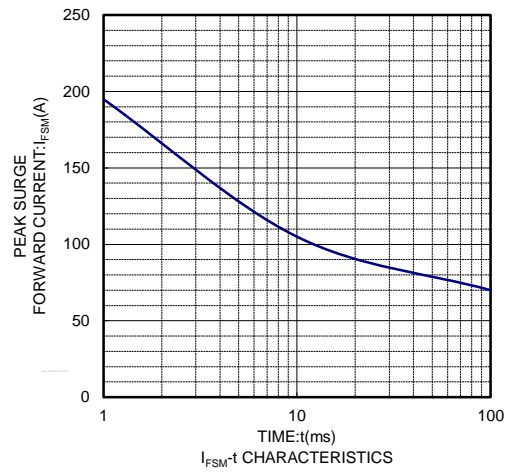
$I_{FSM}$  DISPERSION MAP



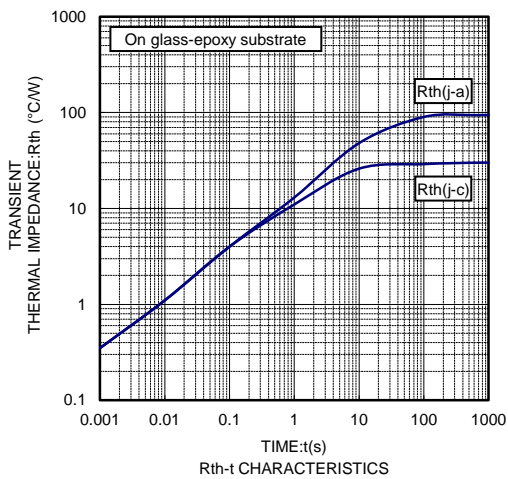
trr DISPERSION MAP



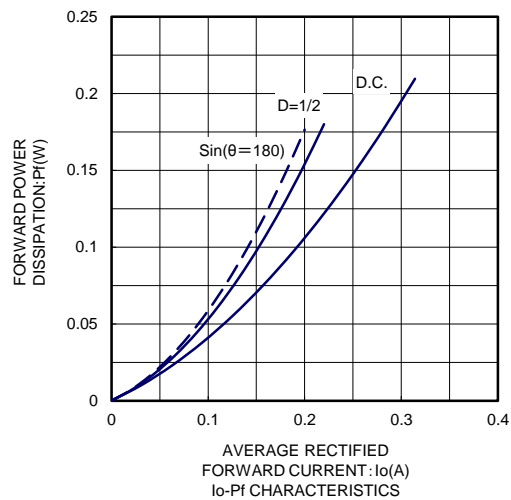
$I_{FSM}$  CYCLE CHARACTERISTICS



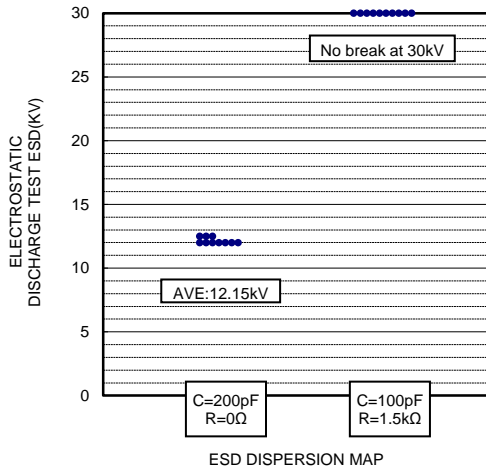
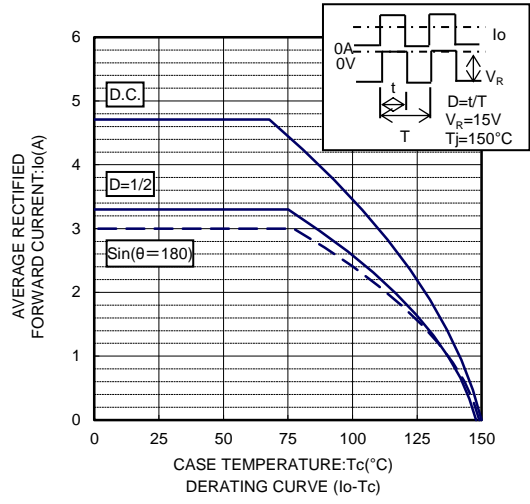
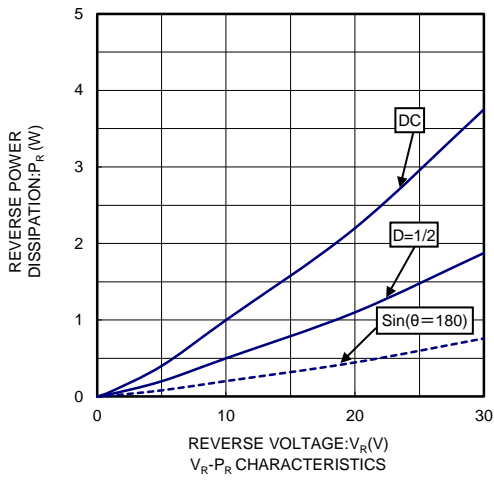
$I_{FSM}$ -t CHARACTERISTICS



Rth-t CHARACTERISTICS



$I_o$ -Pf CHARACTERISTICS



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