

# Schottky Barrier Diode

## RB051M-2Y

**●Applications**

General rectification

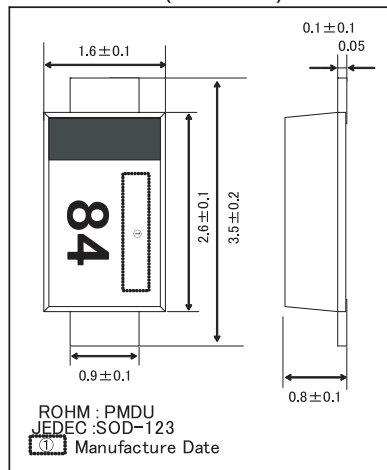
**●Features**

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

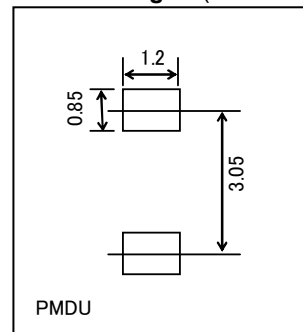
**●Construction**

Silicon epitaxial planer

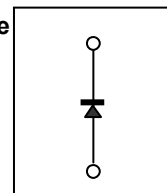
**●Dimensions(Unit : mm)**



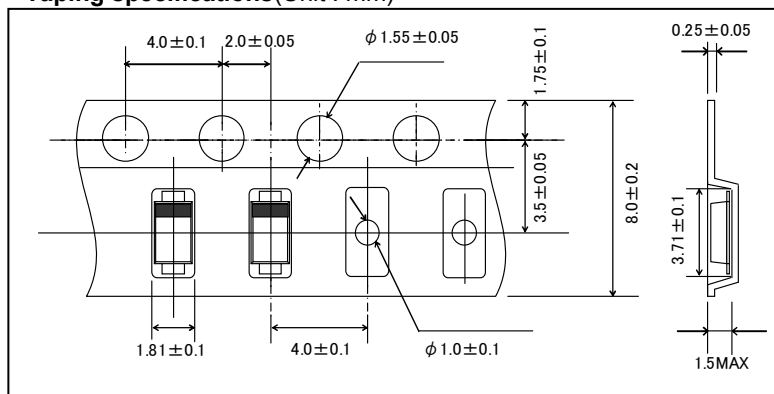
**●Land size figure(Unit : mm)**



**●Structure**



**●Taping specifications(Unit : mm)**



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

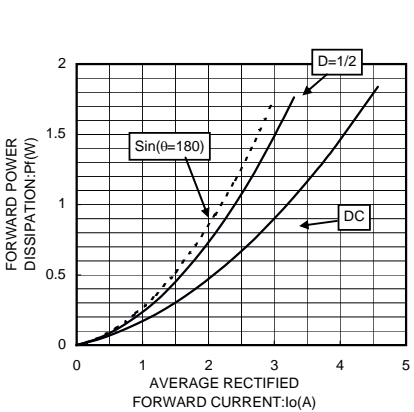
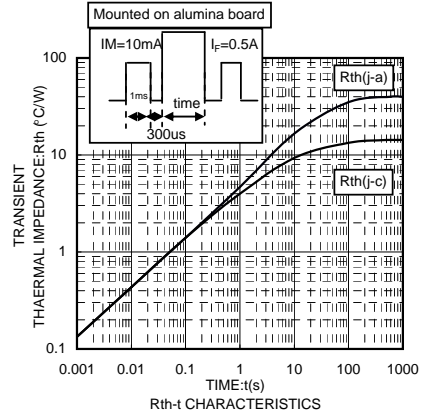
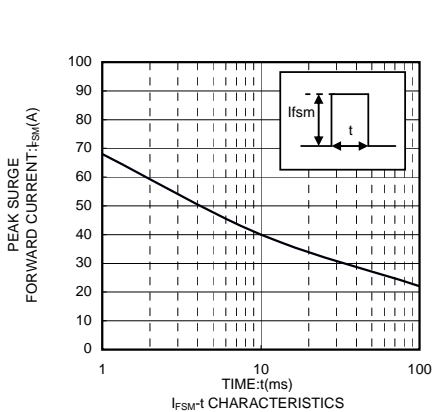
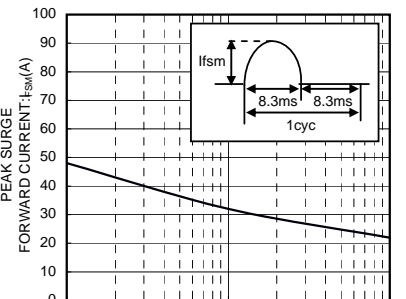
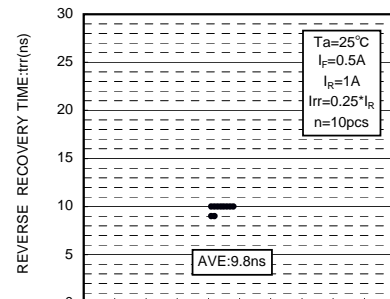
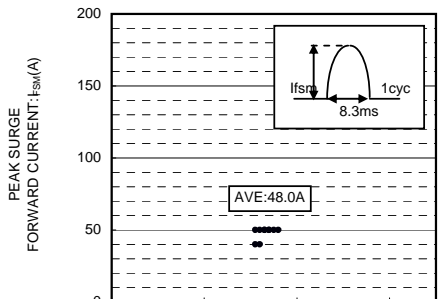
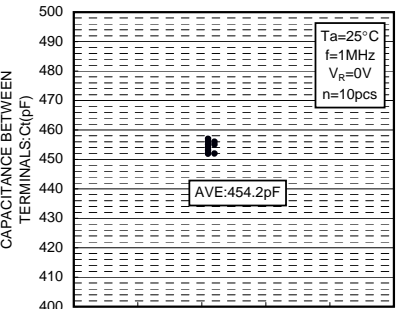
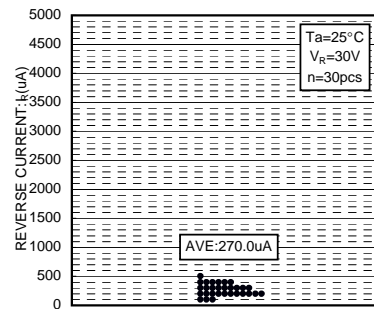
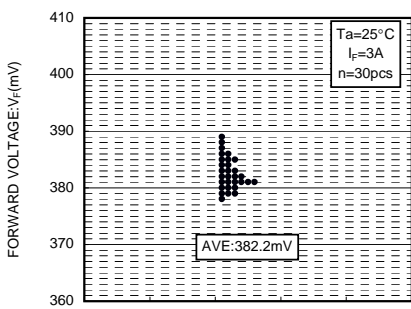
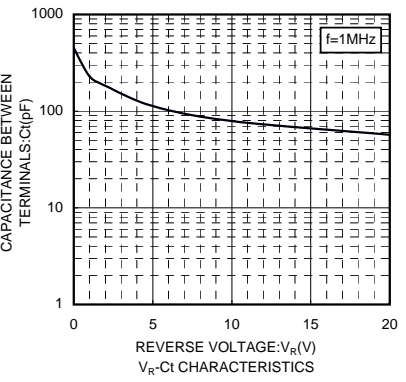
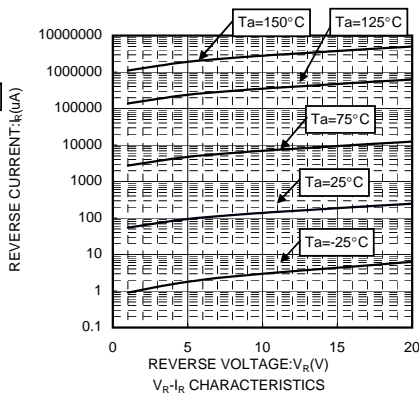
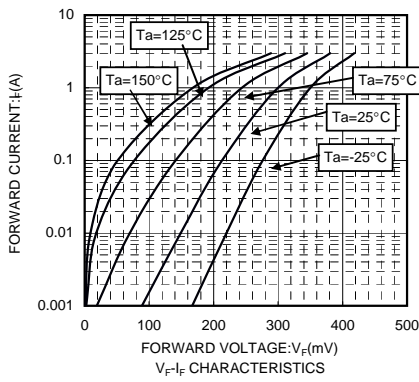
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	20	V
Reverse voltage (DC)	$V_R$	20	V
Average rectified forward current(*1)	$I_o$	3	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	30	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

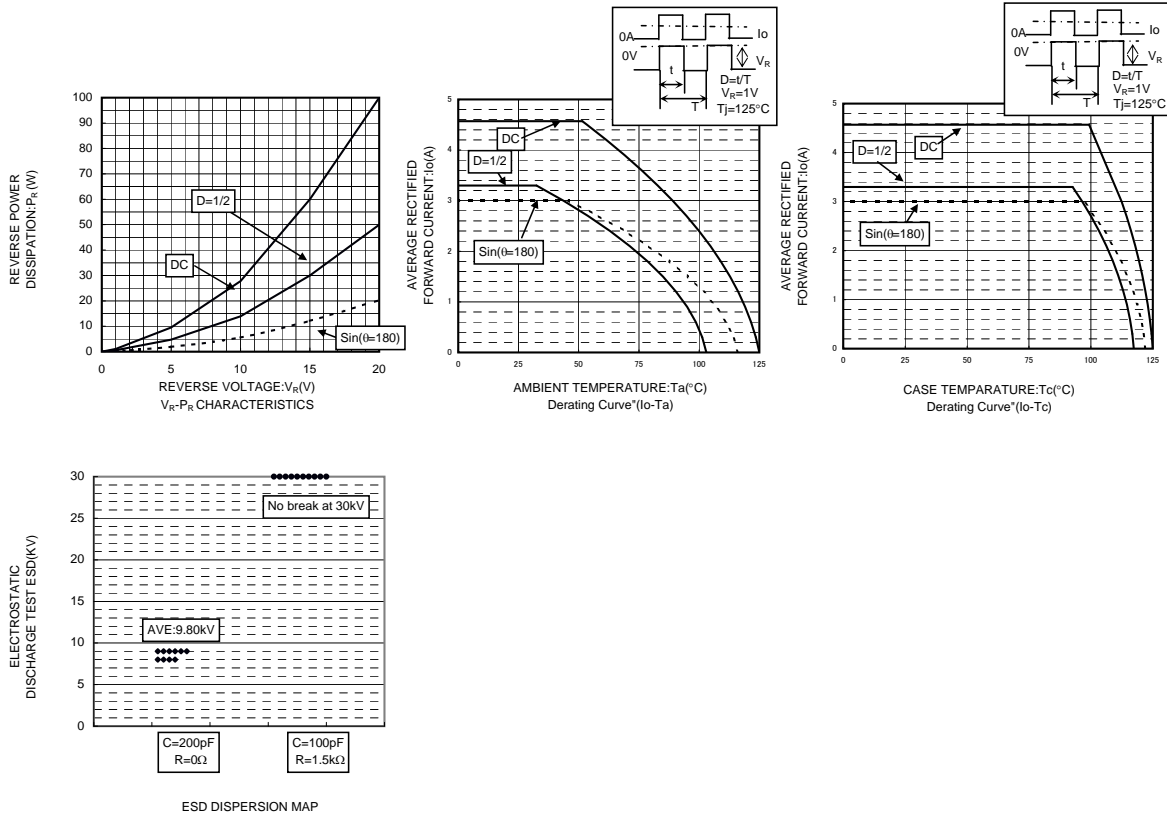
(\*1)Mounting on alumina board.  $T_c=95^\circ\text{C}$  Max.

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.46	V	$I_F=3A$
Reverse current	$I_R$	-	-	0.9	mA	$V_R=20V$

●Electrical characteristic curves





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