

# Schottky barrier diode

## RB050L-60

**●Applications**

General rectification

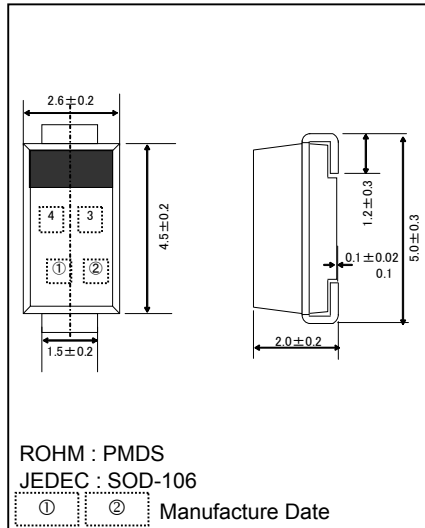
**●Features**

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

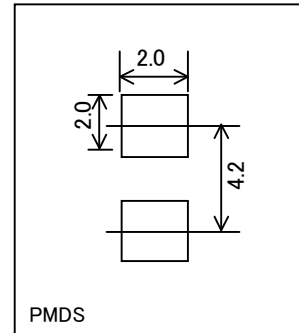
**●Construction**

Silicon epitaxial planar

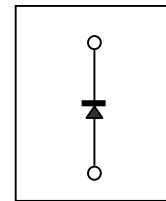
**●Dimensions (Unit : mm)**



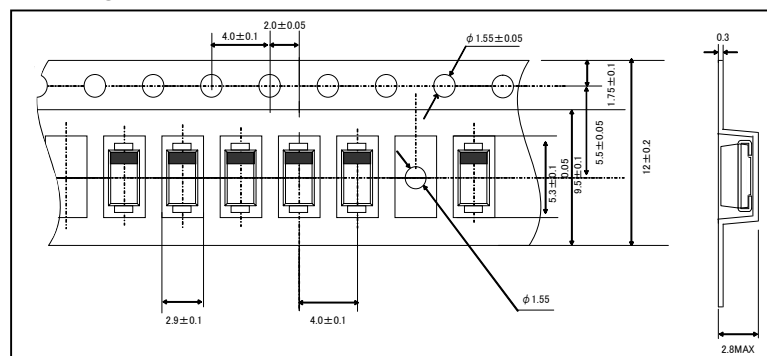
**●Land size figure (Unit : mm)**



**●Structure**



**●Taping specifications (Unit : mm)**



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

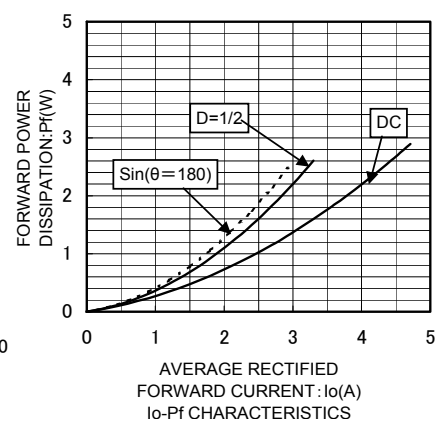
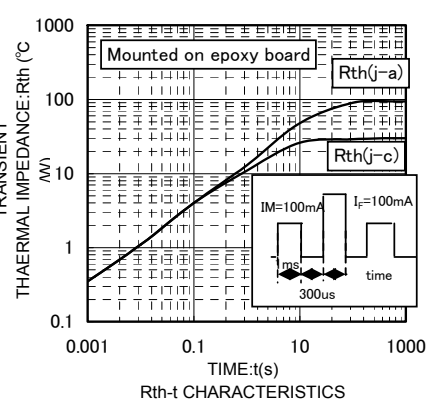
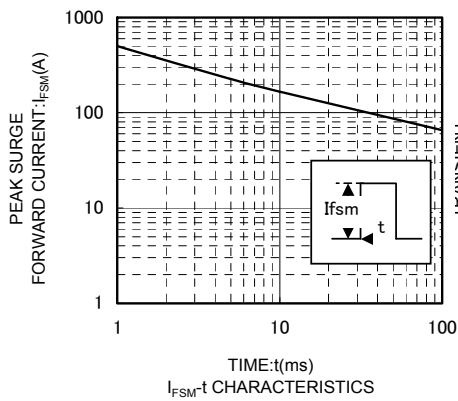
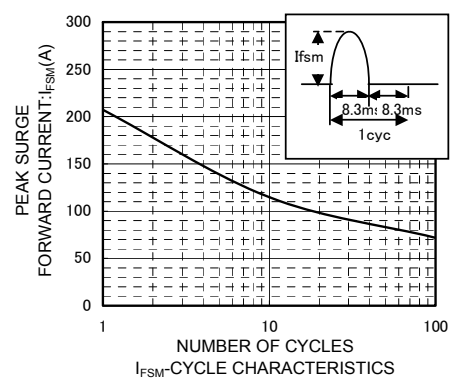
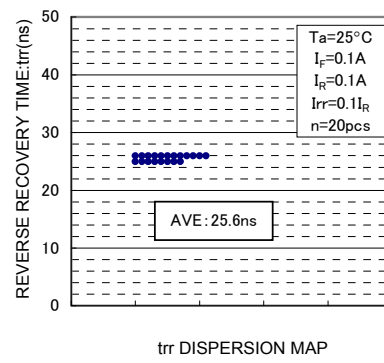
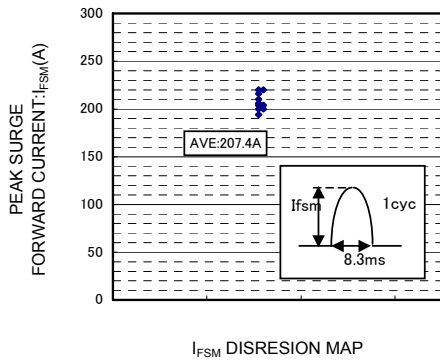
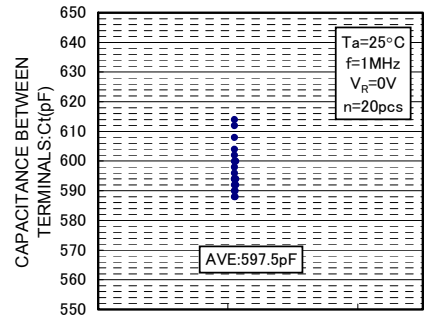
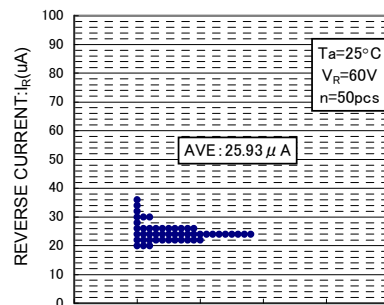
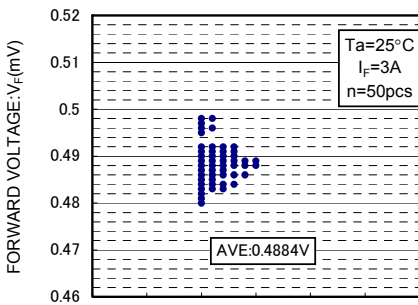
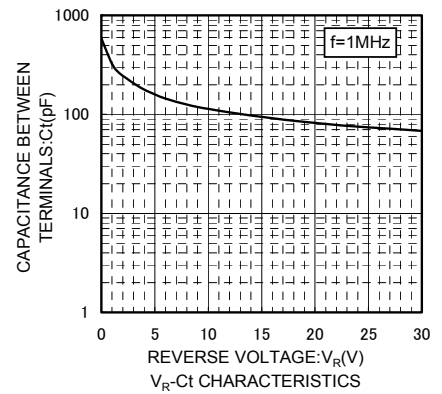
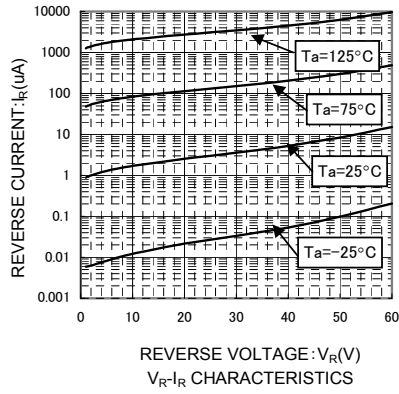
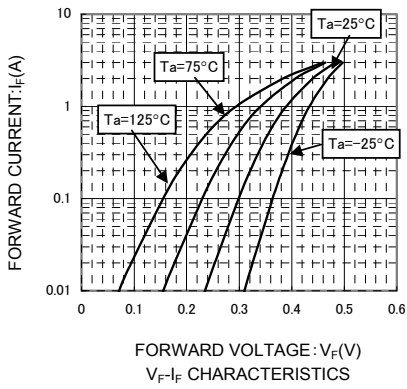
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	60	V
Reverse voltage (DC)	$V_R$	60	V
Average rectified forward current (*1)	$I_o$	3	A
Average rectified forward current (*2)	$I_o$	2	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	70	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

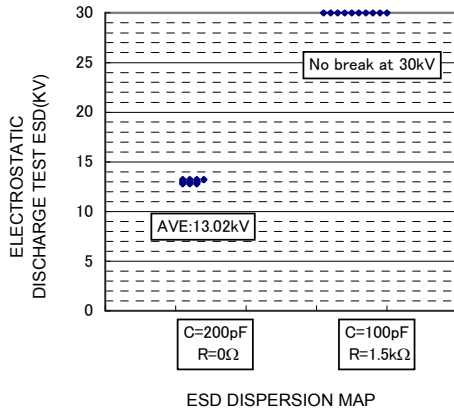
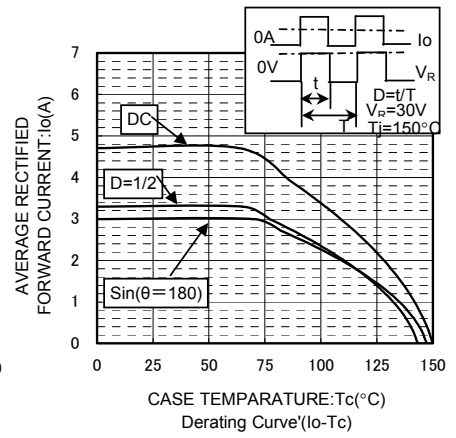
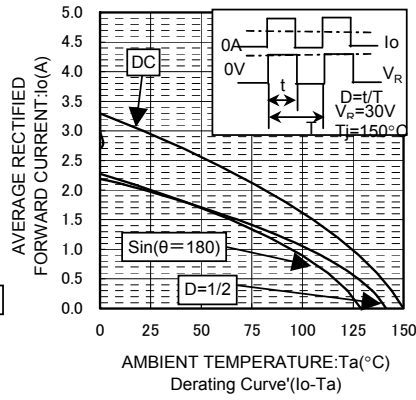
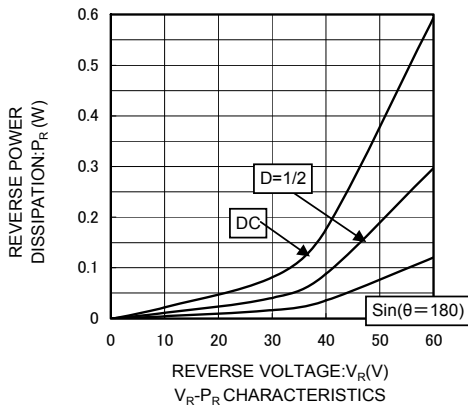
(\*1) On the Glass epoxy substrate, half sine wave at 180°  $T_c=69^\circ\text{C MAX}$

(\*2) On the Glass epoxy substrate, half sine wave at 180°

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.52	V	$I_F=2.0A$
	$V_{F2}$	-	-	0.56	V	$I_F=3.0A$
Reverse current	$I_R$	-	-	100	$\mu A$	$V_R=60V$





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