

Schottky barrier diode

RB050L-60

●Applications

General rectification

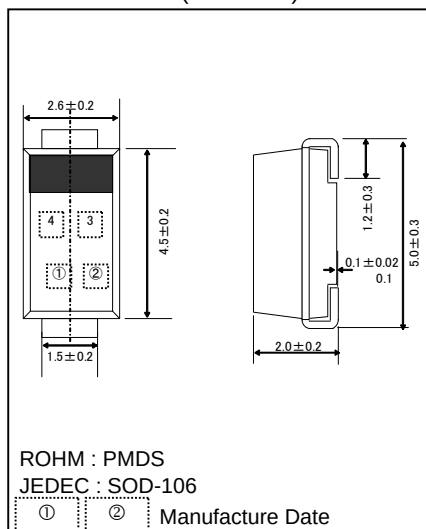
●Features

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

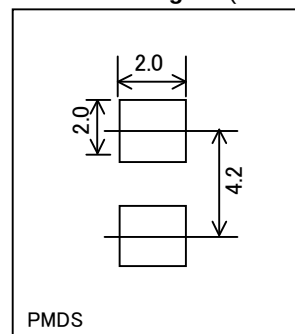
●Construction

Silicon epitaxial planar

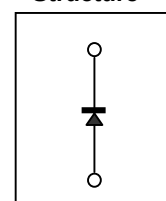
●Dimensions (Unit : mm)



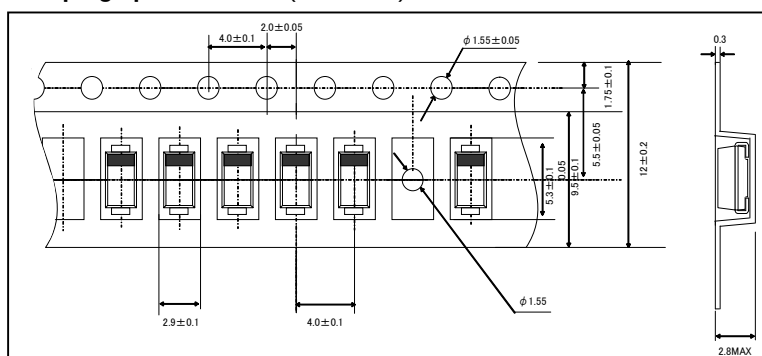
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

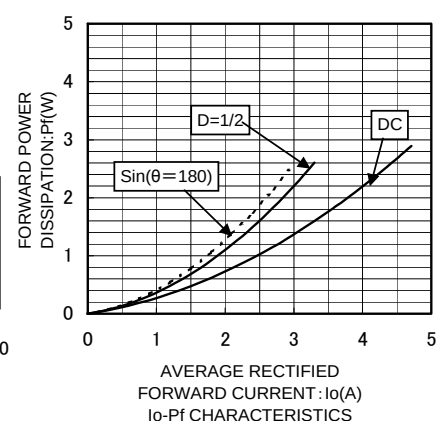
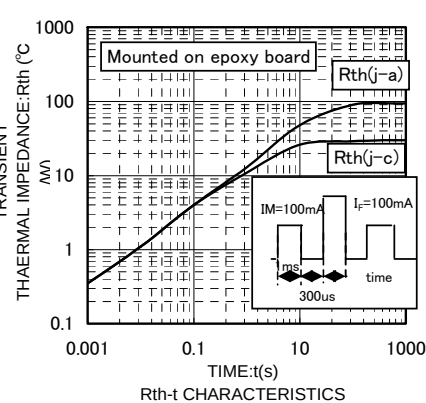
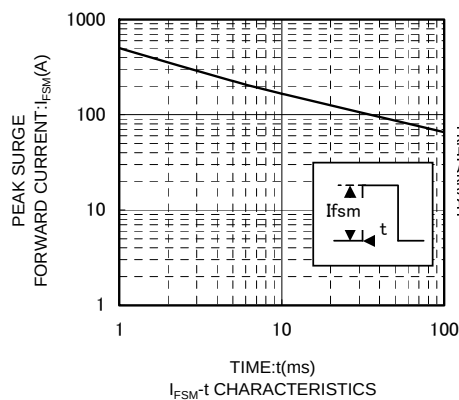
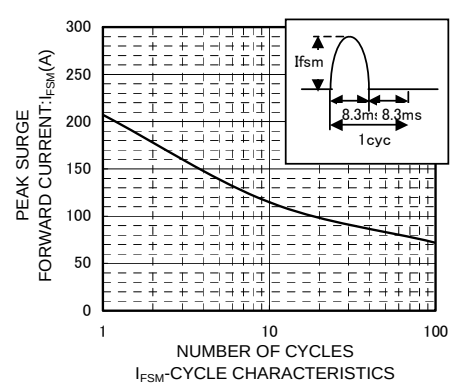
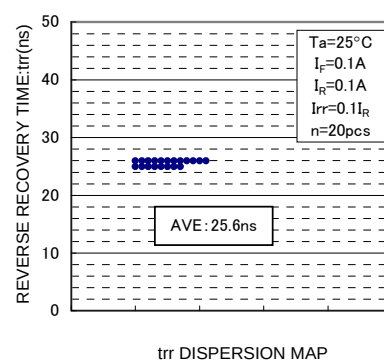
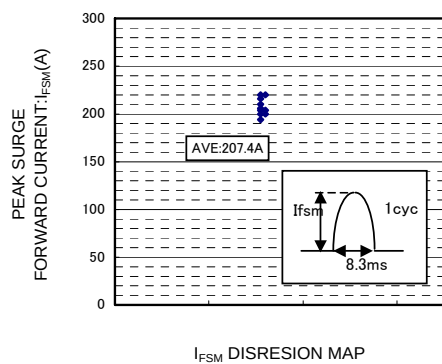
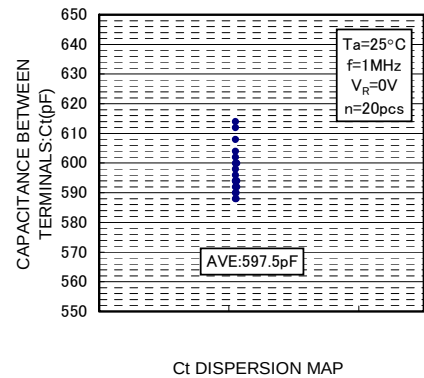
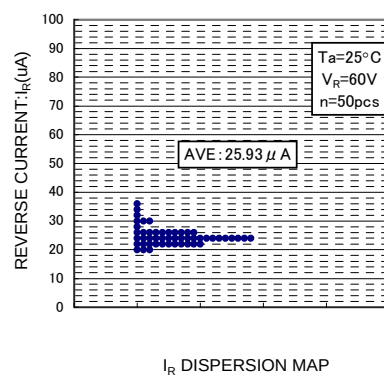
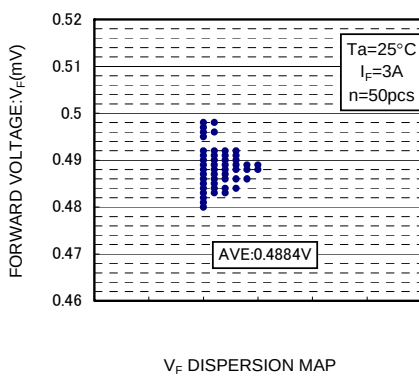
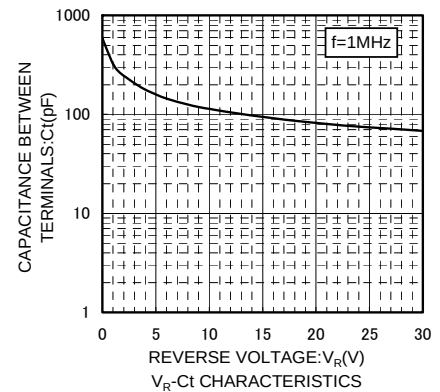
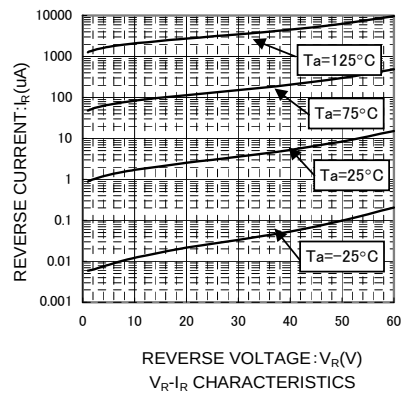
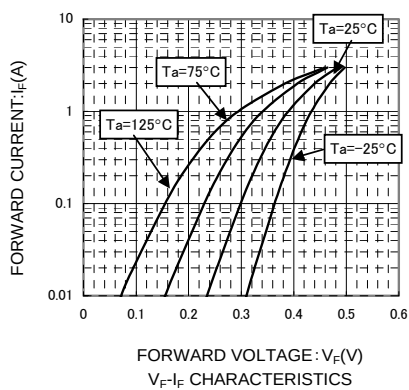
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	I_o	3	A
Average rectified forward current (*2)	I_o	2	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}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

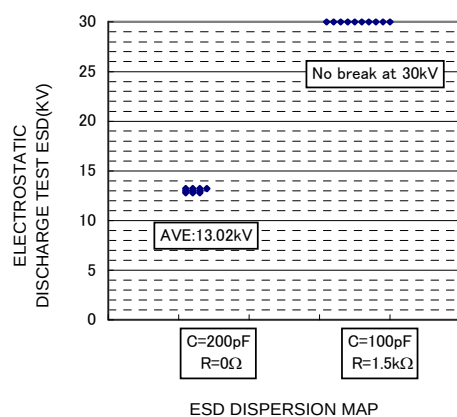
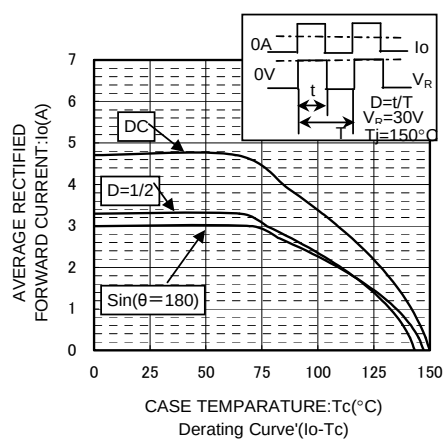
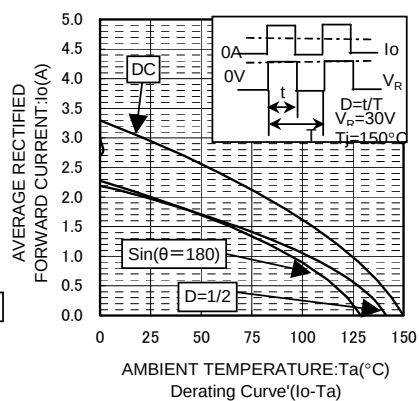
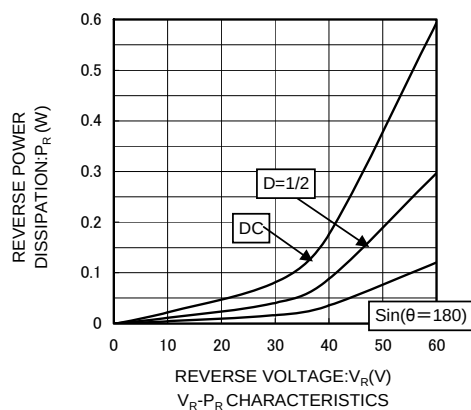
(*1) On the Glass epoxy substrate, half sine wave at 180° $T_c=69^{\circ}\text{C MAX}$

(*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	$I_F=2.0\text{A}$
	V_{F2}	-	-	0.56	V	$I_F=3.0\text{A}$
Reverse current	I_R	-	-	100	μA	$V_R=60\text{V}$





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