

# Shottky barrier diode

## RB050L-40

●Applications

General rectification

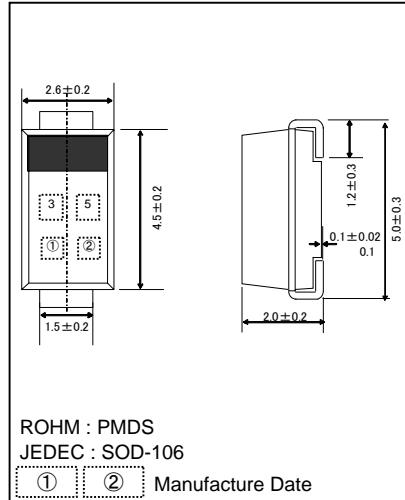
●Features

- 1) Small power mold type. (PMDS)
- 2) Low I<sub>r</sub>
- 3) High reliability.

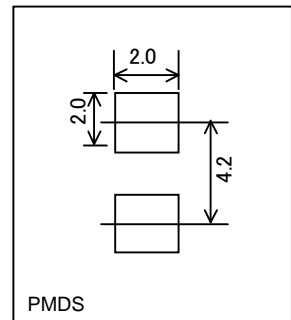
●Construction

Silicon epitaxial planar

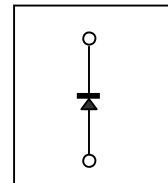
●Dimensions (Unit : mm)



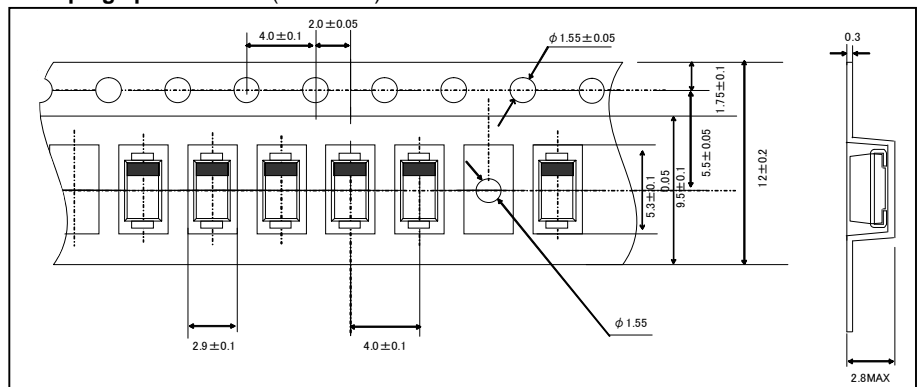
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (T<sub>a</sub>=25°C)

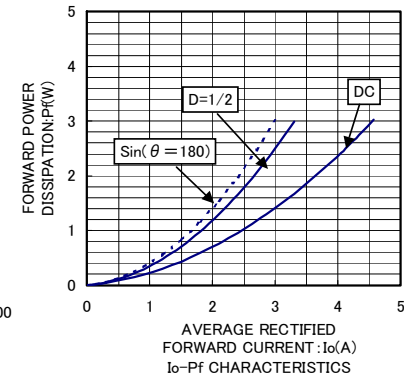
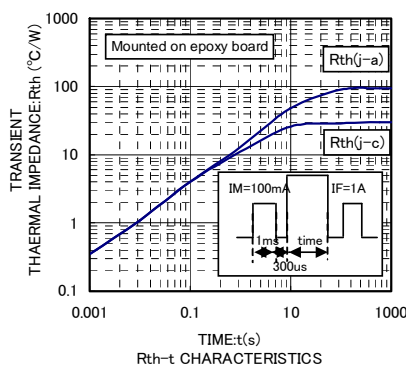
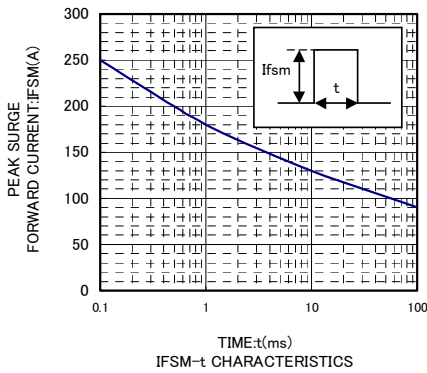
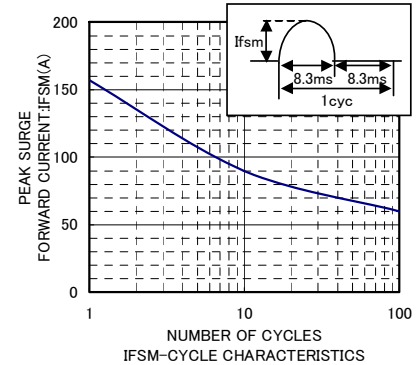
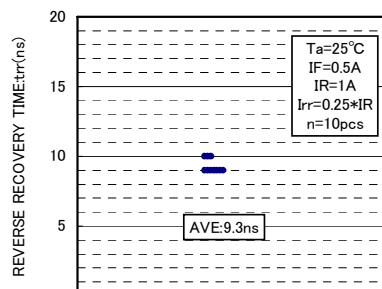
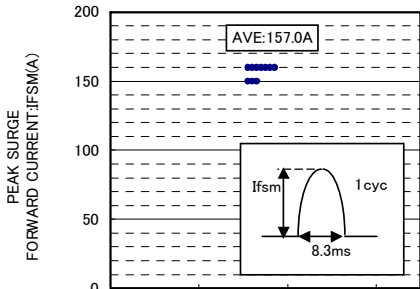
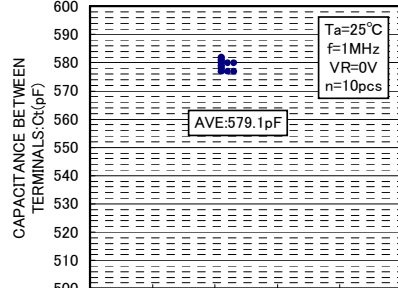
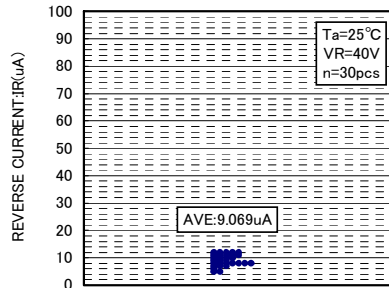
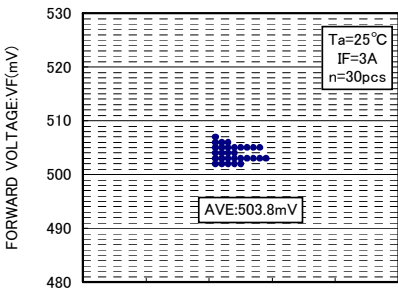
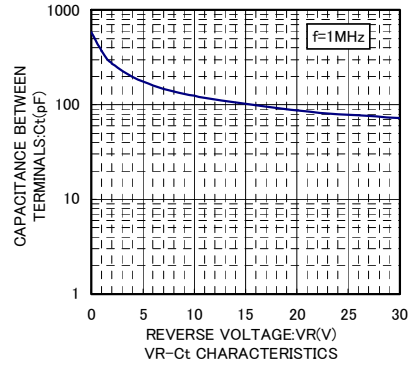
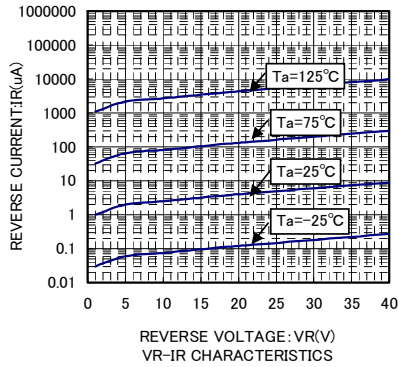
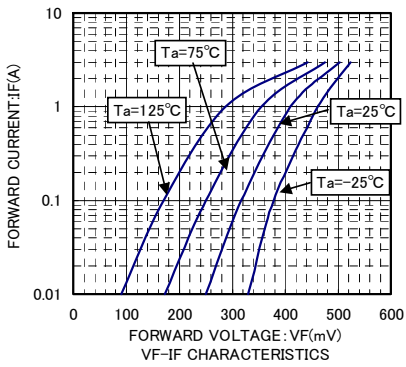
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	40	V
Reverse voltage (DC)	V <sub>R</sub>	40	V
Average rectified forward voltage	I <sub>o</sub>	3	A
Forward current surge peak (60Hz·1cyc)	I <sub>FSM</sub>	70	A
Junction temperature	T <sub>J</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40 to +125	°C

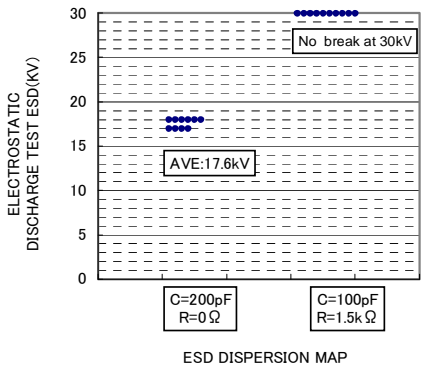
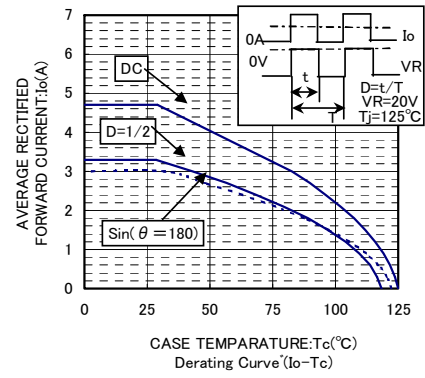
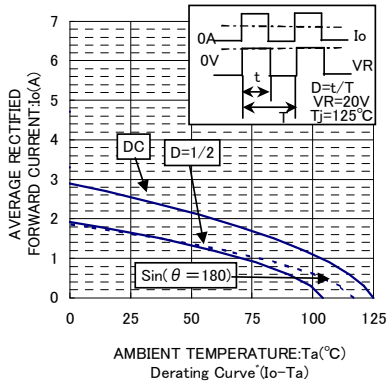
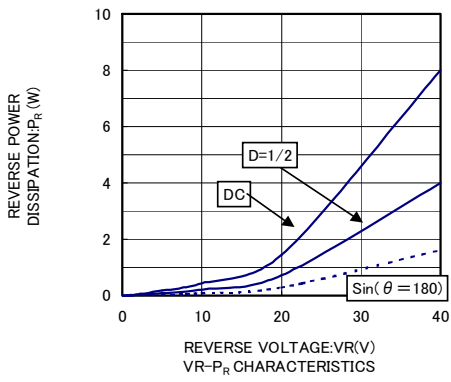
(\*1) Mounted on epoxy board. 180° Half sine wave

●Electrical characteristics (T<sub>a</sub>=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F1</sub>	-	-	0.55	V	I <sub>F</sub> =3.0A
	V <sub>F2</sub>	-	-	0.50	V	I <sub>F</sub> =1.5A
Reverse current	I <sub>R</sub>	-	-	1	mA	V <sub>R</sub> =40V

●Electrical characteristic curves (Ta=25°C)





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