

Schottky Barrier Diode

RB050LA-30

● Applications

General rectification

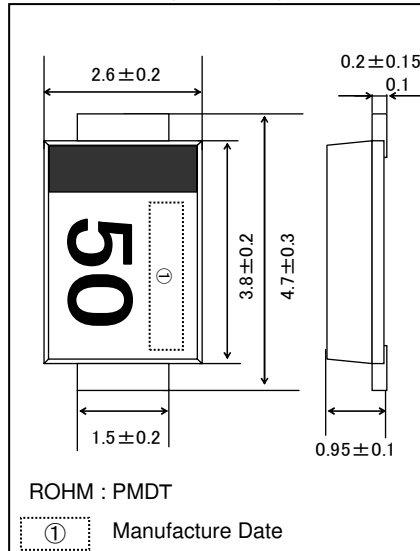
● Features

- 1) Small and thin power mold type.(PMDT)
- 2) Low I_R
- 3) High reliability

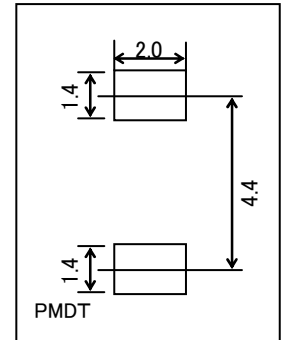
● Construction

Silicon epitaxial planar

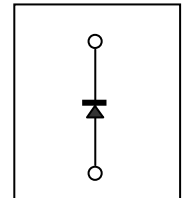
● Dimensions (Unit : mm)



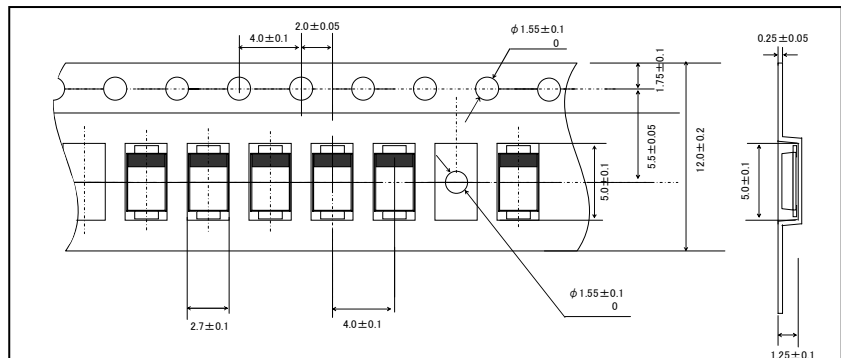
● Land size figure(Unit : mm)



● Structure



● Taping specifications (Unit : mm)



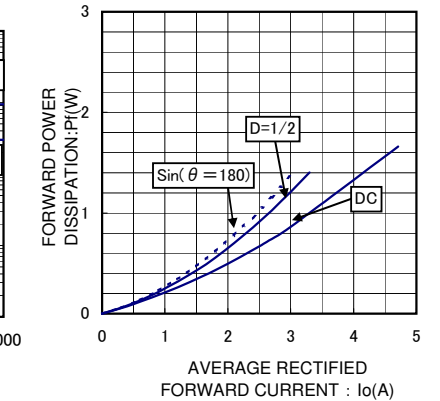
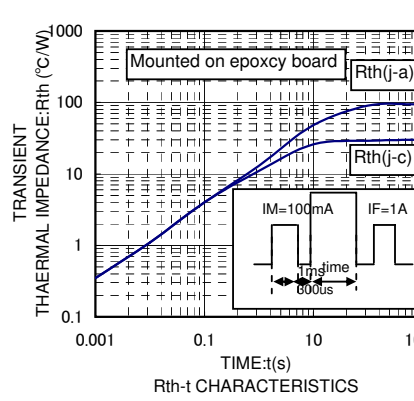
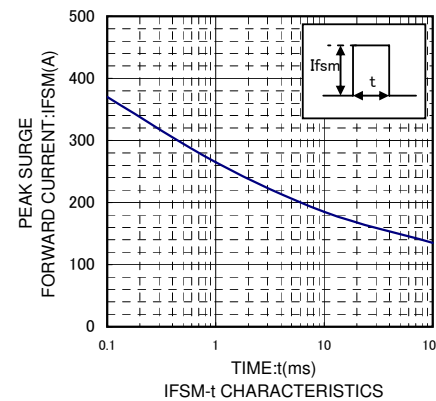
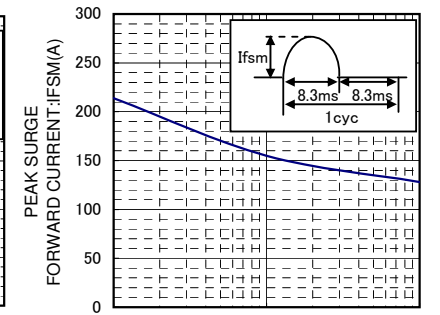
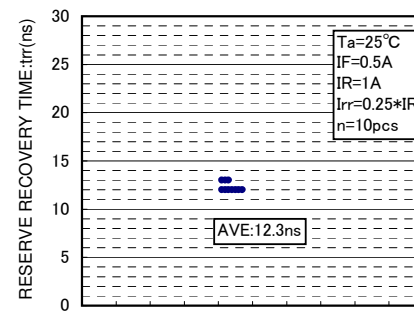
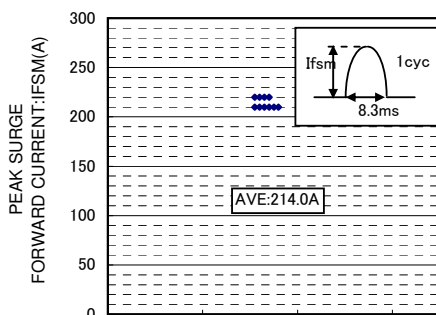
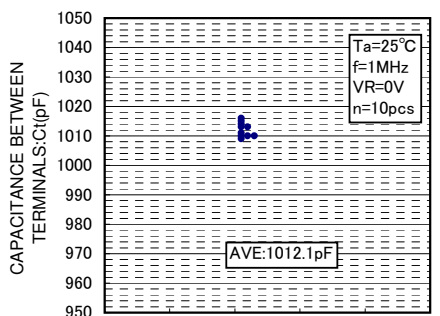
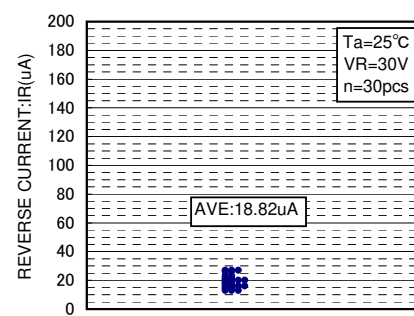
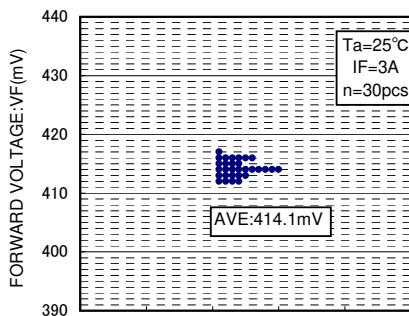
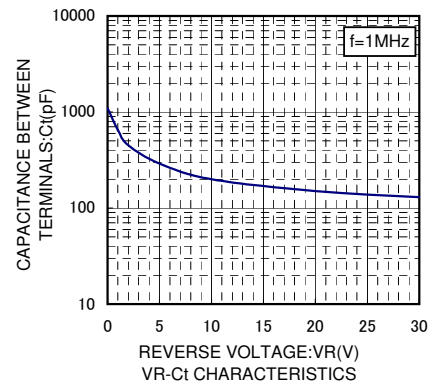
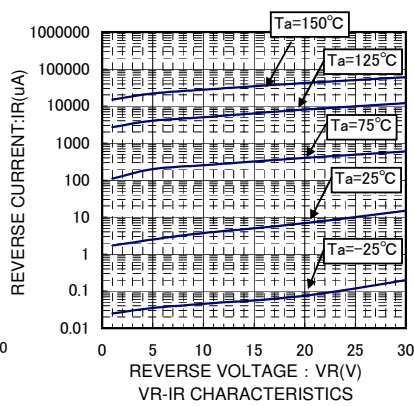
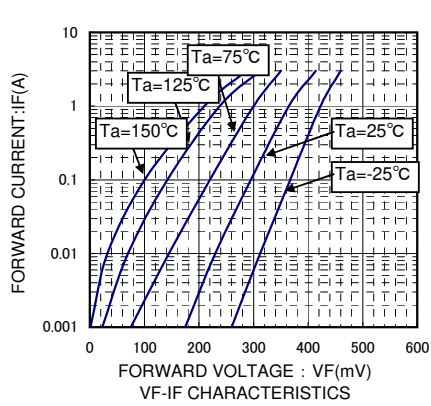
● Absolute maximum ratings (Ta=25°C)

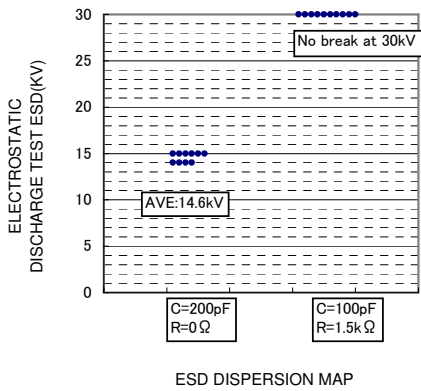
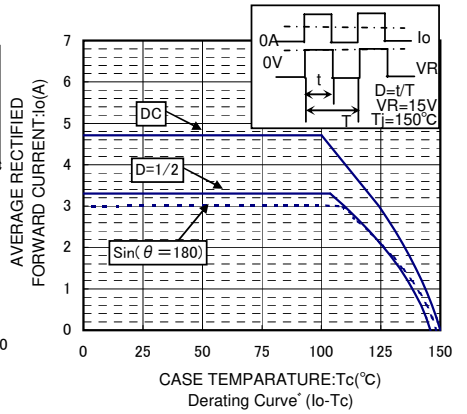
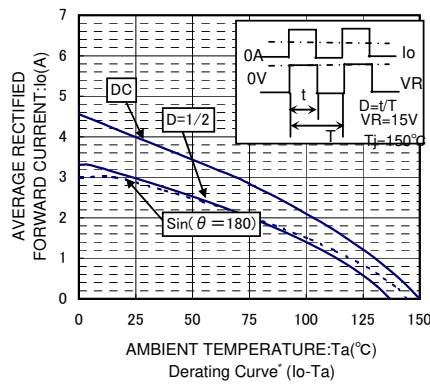
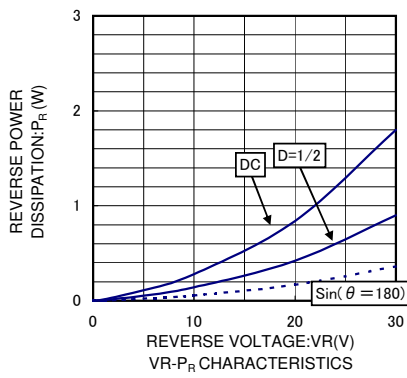
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	3	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

(*1) $T_c=105^\circ\text{C}_{max}$ Mounting on epoxy board. 180°Half sine wave

● Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.45	V	$I_F=3.0\text{A}$
Reverse current	I_R	-	-	150	μA	$V_R=30\text{V}$





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