

Schottky barrier diode

RB050LA-30

● Applications

General rectification

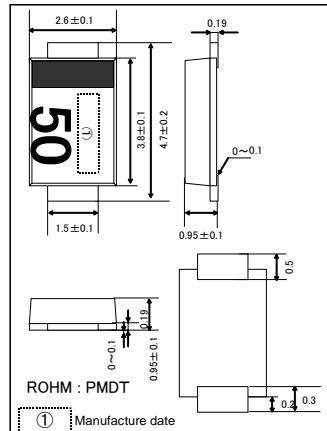
● Features

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

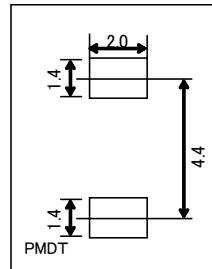
● Structure

Silicon Epitaxial Planer

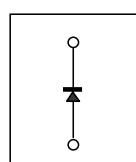
● External dimensions (Unit : mm)



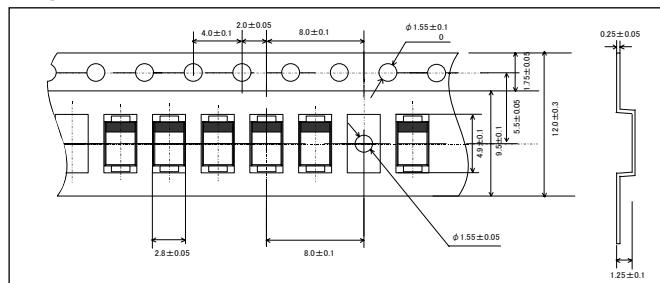
● Land size figure



● Structure



● Taping dimensions (Unit : mm)



● Absolute maximum ratings ($T_a=25^\circ\text{C}$)

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

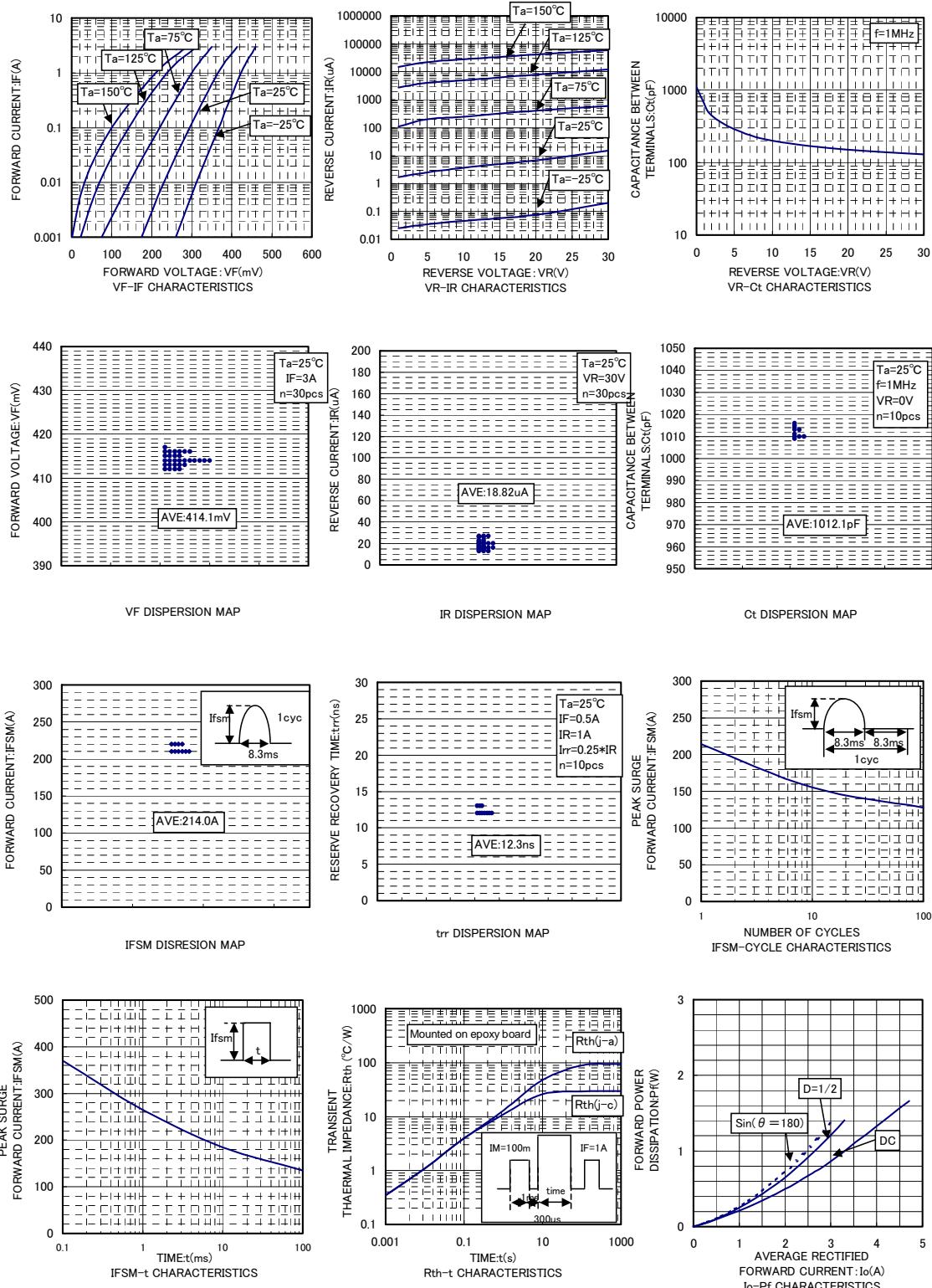
(*1) $T_c=90^\circ\text{C}$ max Mounted on epoxy board. 180°Half sine wave

● Electrical characteristic ($T_a=25^\circ\text{C}$)

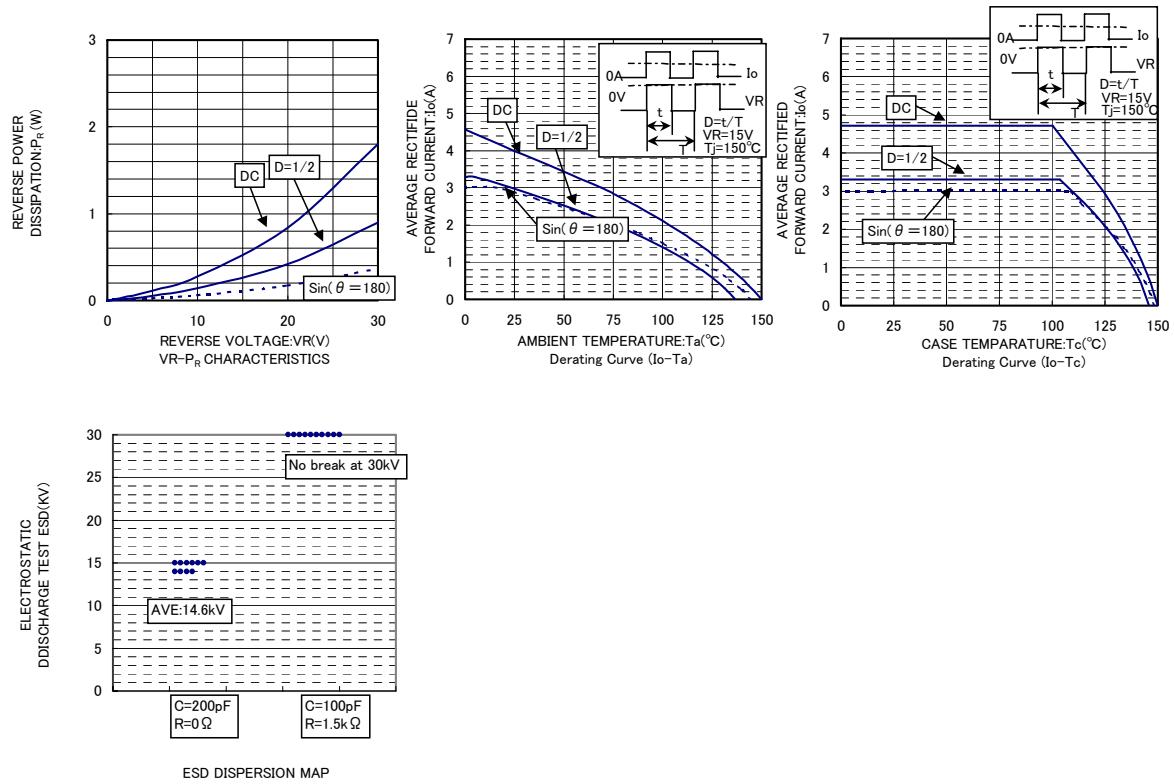
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.45	V	$I_F=3.0\text{A}$
Reverse current	I_R	-	-	150	μA	$V_R=30\text{V}$

Diodes

● Electrical characteristic curves



Diodes



Appendix

Notes

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