

Schottky barrier diode

RB050LA-30

●Applications

General rectification

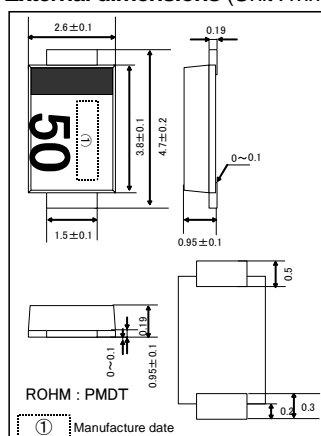
●Features

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

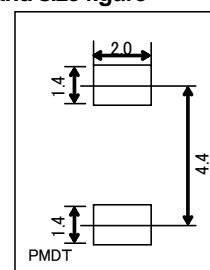
●Structure

Silicon Epitaxial Planer

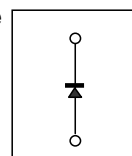
●External dimensions (Unit : mm)



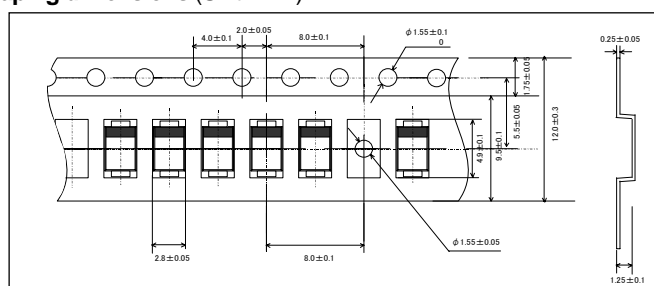
●Land size figure



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°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 cirremt surge peak (60Hz · 1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

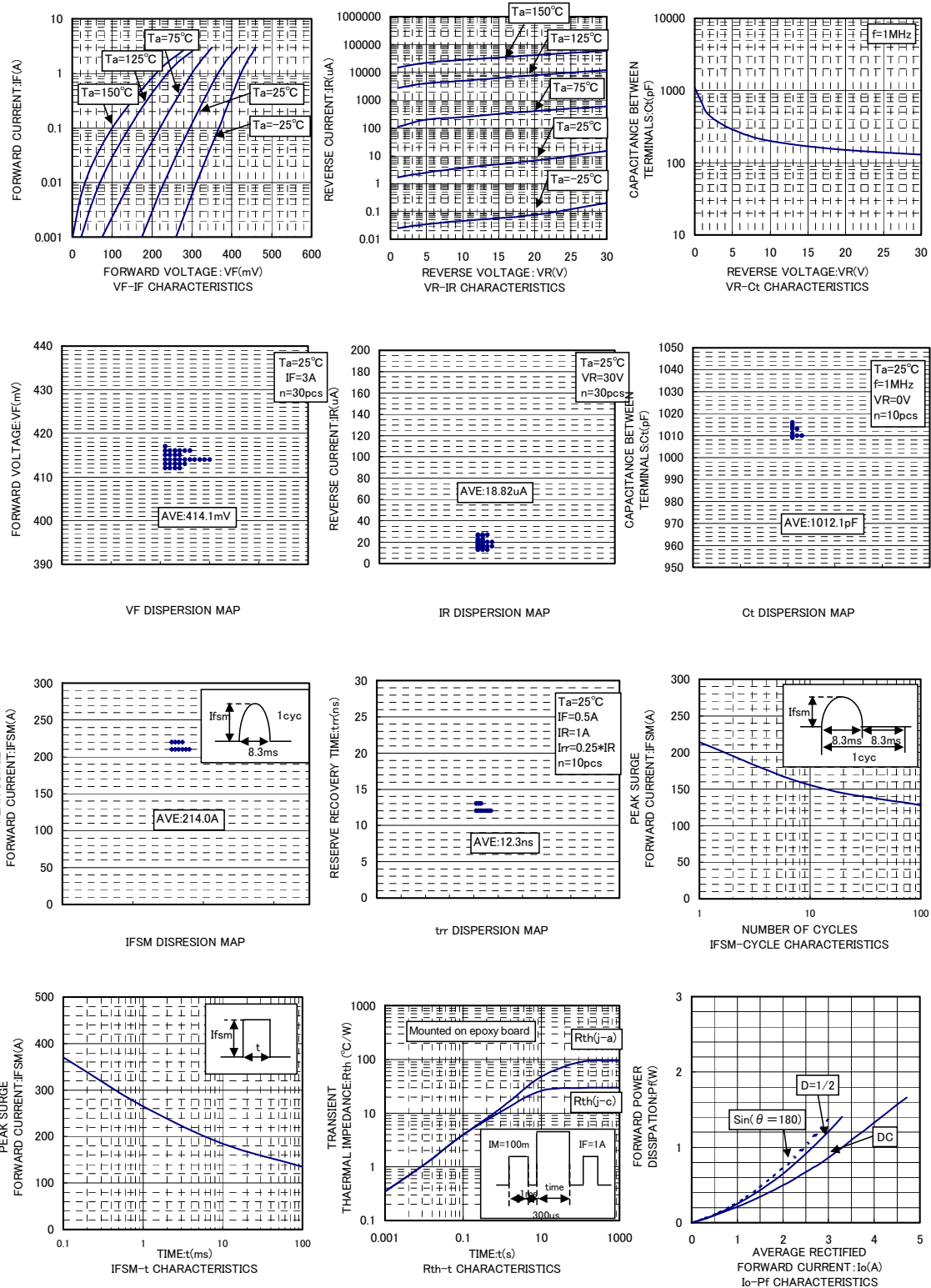
(*1) $T_c=90^{\circ}\text{Cmax}$ Mounted on epoxy board. 180°Half sine wave

●Electrical characteristic (Ta=25°C)

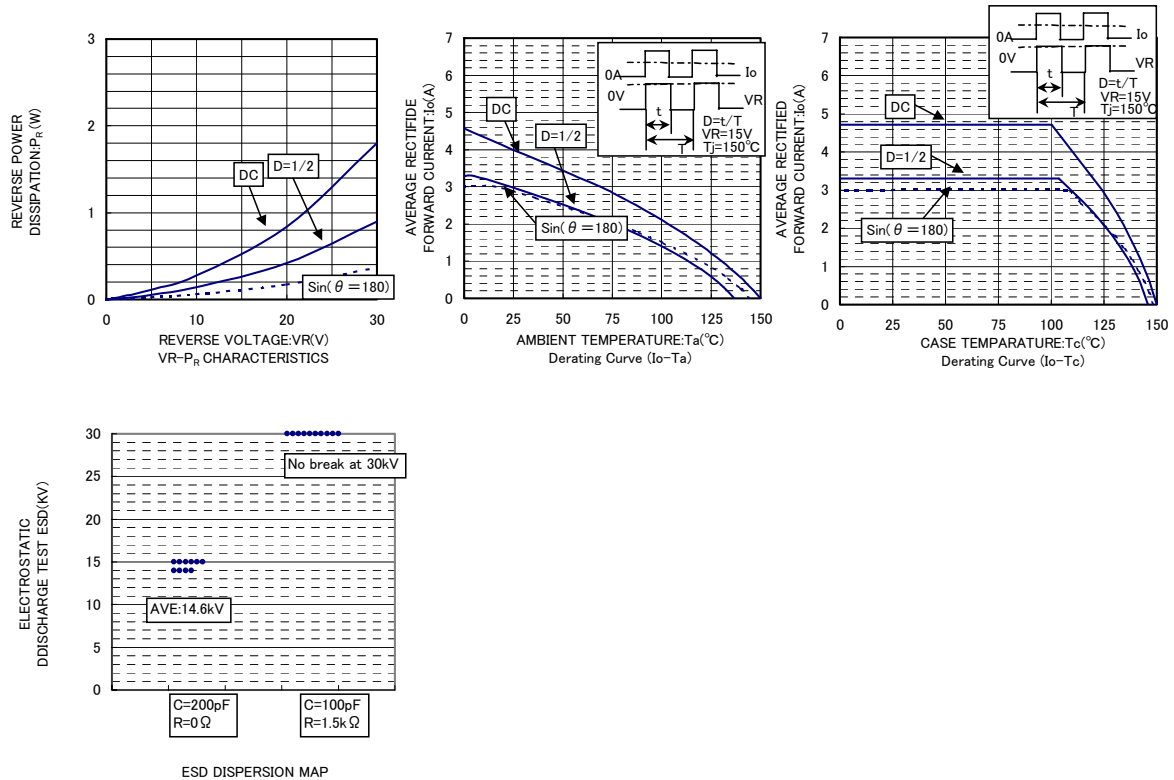
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.45	V	$I_F=3.0\text{A}$
Reverse current	I_R	-	-	150	μA	$V_R=30\text{V}$

Diodes

●Electrical characteristic curves



Diodes



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