

Schottky barrier diode

RB055LA-40

● Applications

General rectification

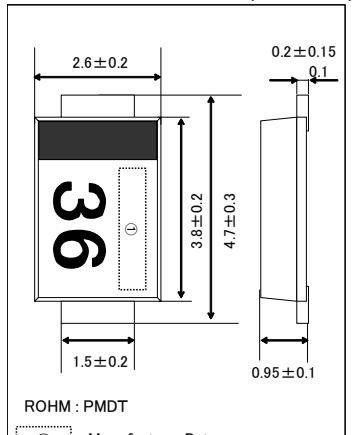
● Features

- 1) Small power mold type (PMDT)
- 2) Low V_F
- 3) High reliability

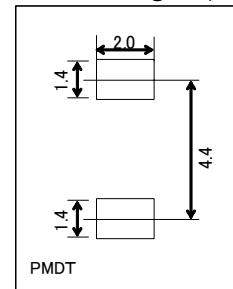
● Structure

Silicon epitaxial planar

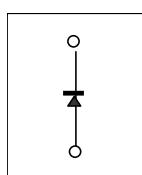
● External dimensions (Unit : mm)



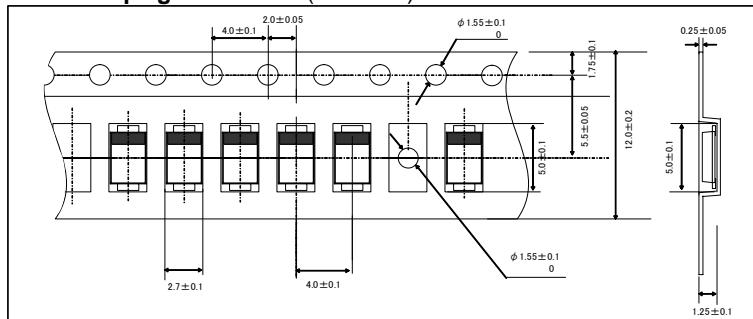
● Land size figure (Unit : mm)



● Structure



● Taping dimensions (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	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

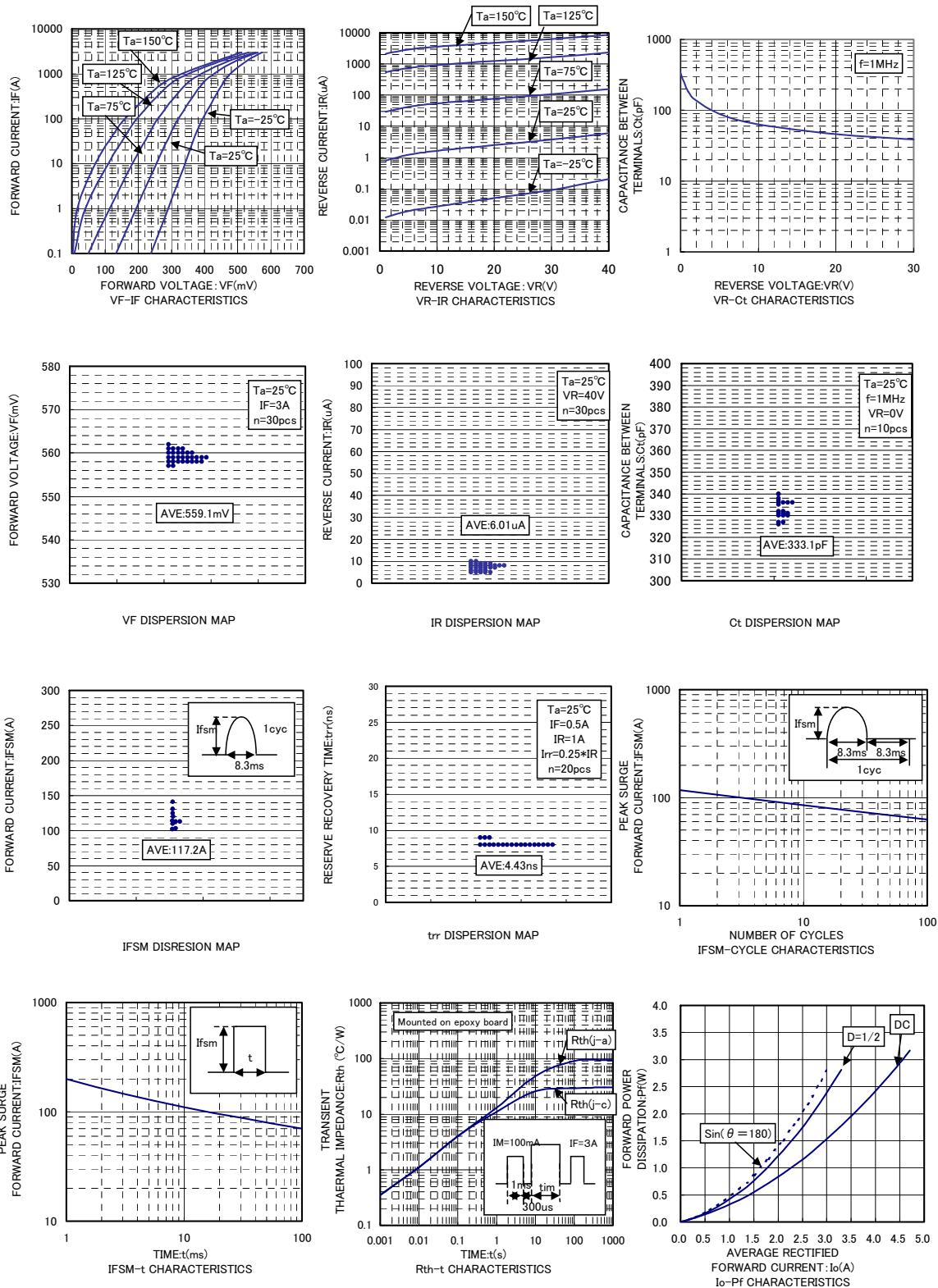
(*1) $T_c=80^\circ\text{C}$ max Mounted on epoxy board. 160°Half sine wave

● Electrical characteristic (Ta=25°C)

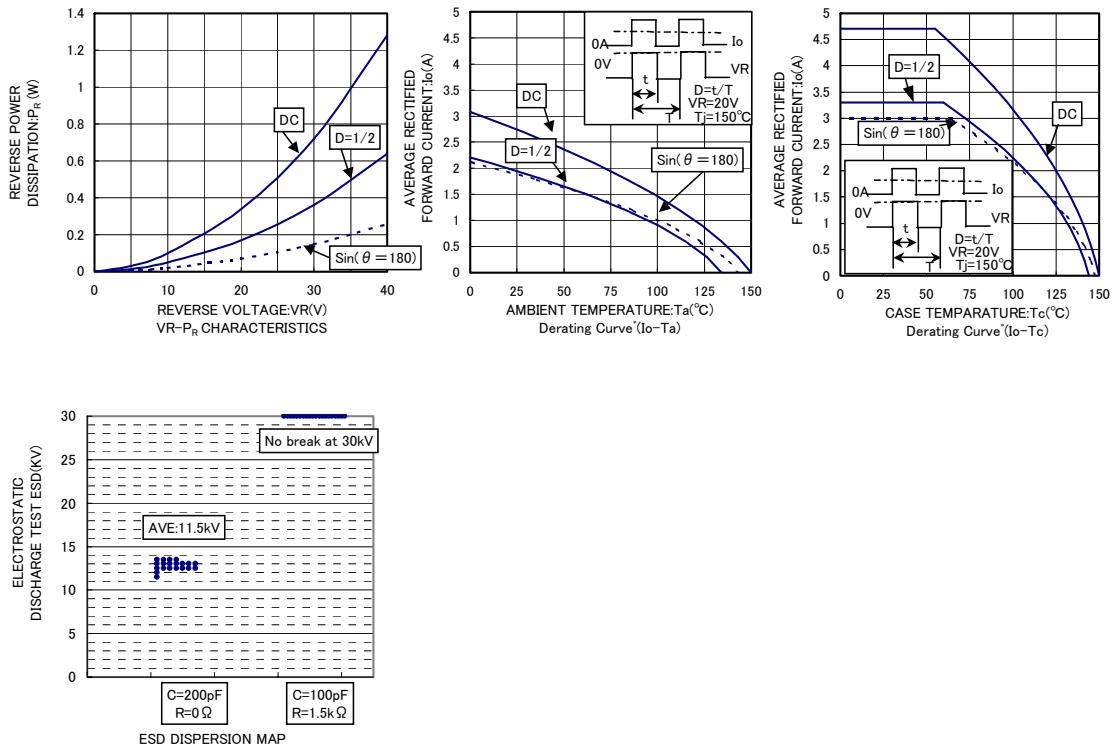
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.55	V	$I_F=1.5\text{A}$
	V_{F2}	-	-	0.62	V	$I_F=3.0\text{A}$
Reverse current	I_R	-	-	100	μA	$V_R=40\text{V}$

Diodes

● Electrical characteristic curves



Diodes



Appendix

Notes

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