

# Schottky barrier diode

## RB055L-40

### ● Applications

General rectification

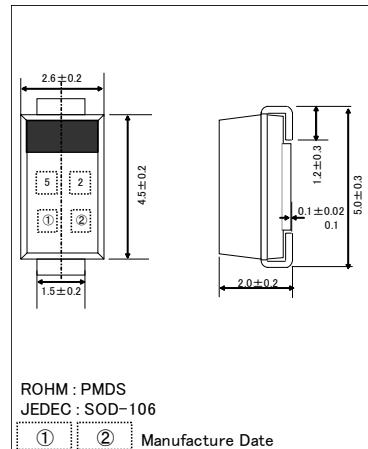
### ● Features

- 1) Small power mold type (PMDS)
- 2) Low  $I_R$
- 3) High reliability

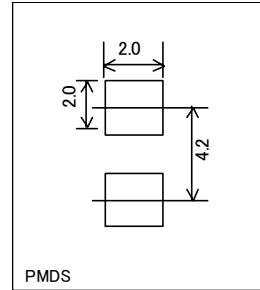
### ● Structure

Silicon epitaxial planar

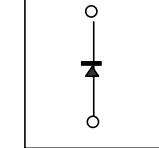
### ● External dimensions (Unit : mm)



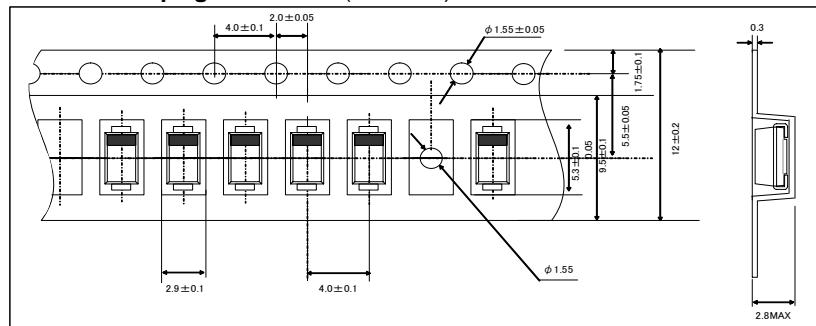
### ● Land size figure (Unit : mm)



### ● 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)	$I_{FSM}$	40	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

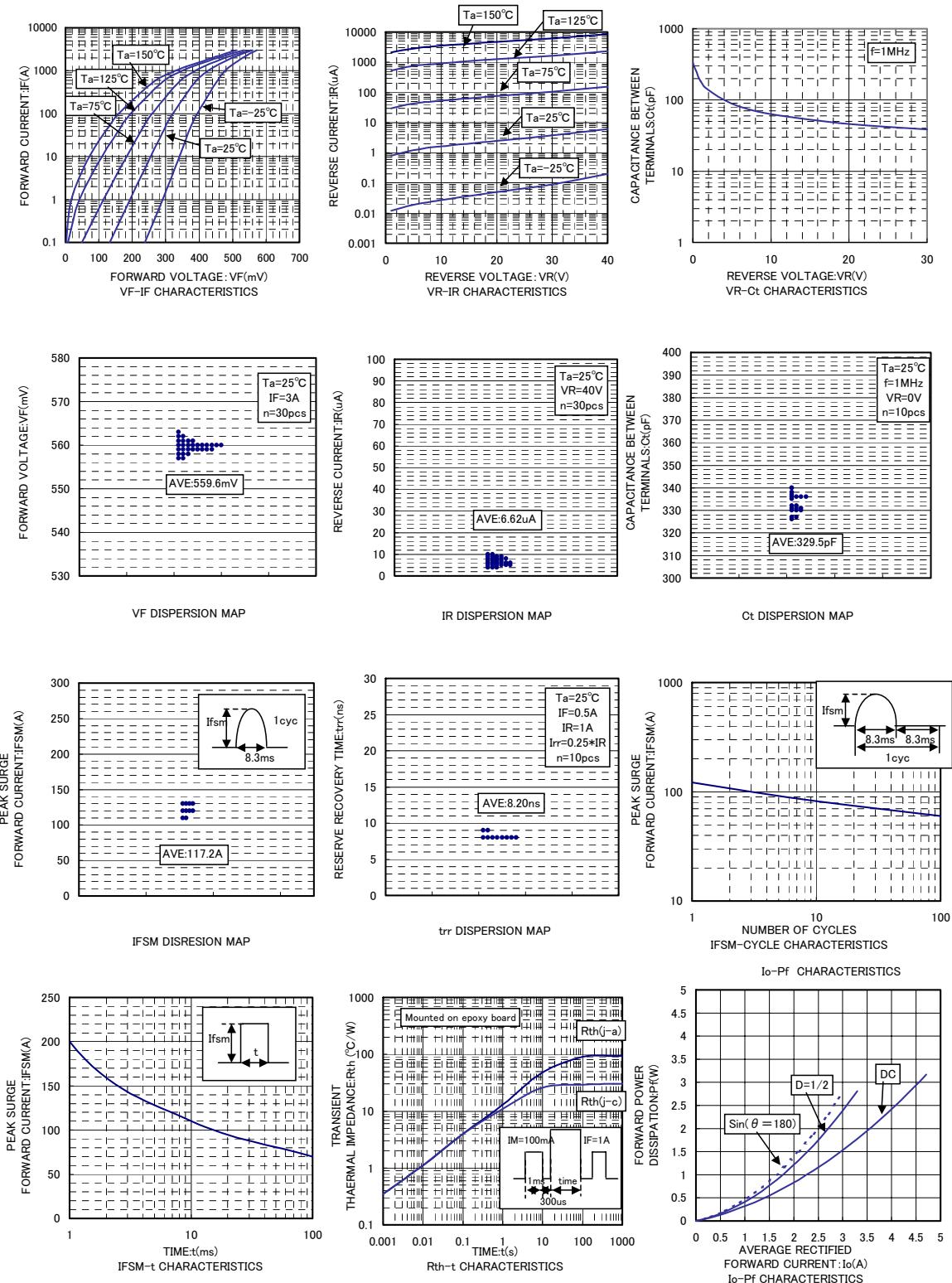
(\*1) Mounted on epoxy board. 180°Half sine wave

### ● Electrical characteristic (Ta=25°C)

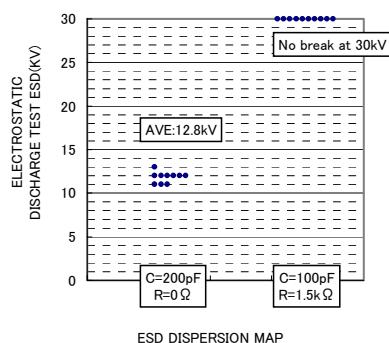
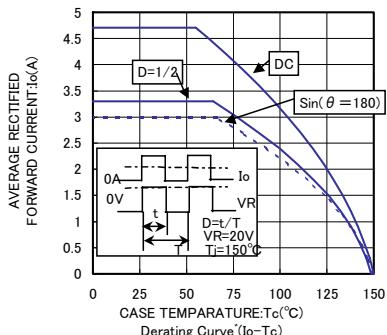
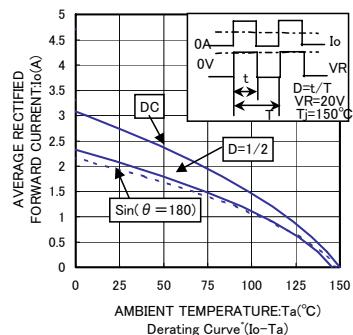
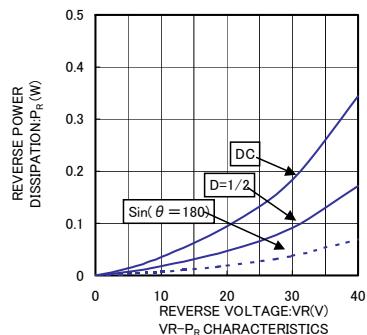
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.65	V	$I_F=3.0A$
Reverse current	$I_R$	-	-	0.5	mA	$V_R=40V$

## Diodes

## ● Electrical characteristic curves



## Diodes



## Appendix

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