# Schottky barrier diode RB051LA-40

### Applications

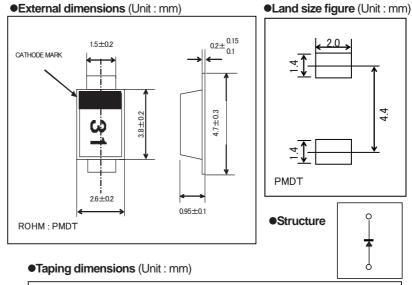
General rectification

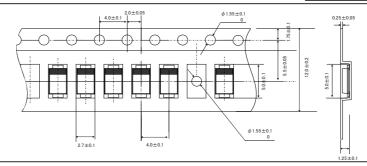
#### Features

- Small and Thin power type (PMDT)
  High reliability.
- 3) Low IR

#### Structure

Silicon epitaxial planar





## •Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	40	V
Reverse voltage (DC)	V <sub>R</sub>	20	V
Average rectified forward current (*1)	lo	3.0	A
Forward current surge peak (60Hz-1cyc)	I <sub>FSM</sub>	70	А
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	°C

(\*1) Alumina substrate at the time of assemble, TL=90°C max.

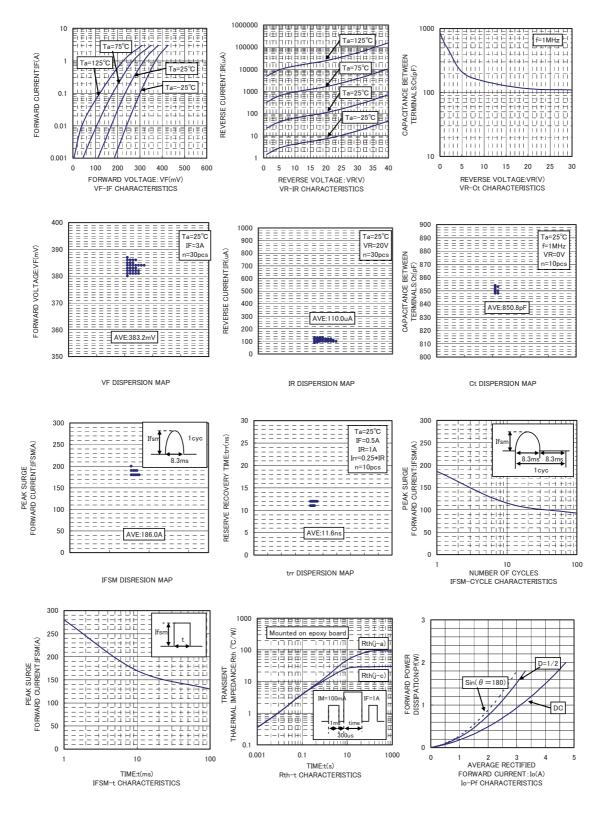
#### •Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F1</sub>	-	-	0.35	V	I <sub>F</sub> =1A
	V <sub>F2</sub>	-	-	0.45	V	I <sub>F</sub> =3A
Reverse current	I <sub>R1</sub>	-	-	1	mA	V <sub>R</sub> =20V
	I <sub>R2</sub>	-	-	150	μA	V <sub>R</sub> =15V

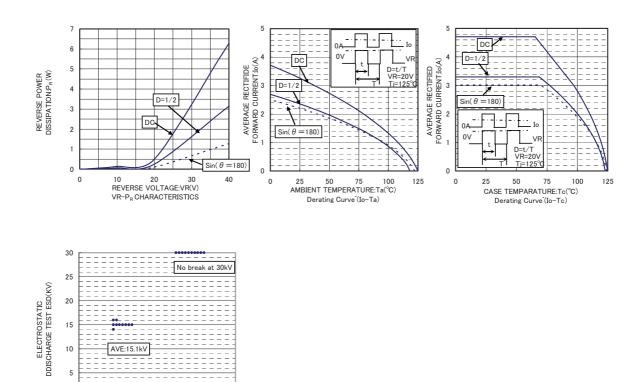


# Diodes

#### •Electrical characteristic curves



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ESD DISPERSION MAP

C=100pF R=1.5kΩ

C=200pF R=0Ω

0

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