# Schottky Barrier Diode

RB162M-30 Data Sheet

# Applications

General rectification

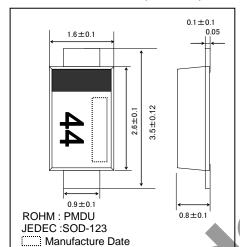
#### Features

1)Small power mold type.(PMDU)2)High reliability

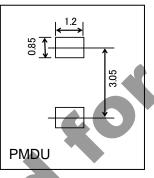
#### Construction

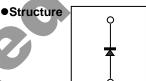
Silicon epitaxial

# ●External Dimensions(Unit : mm)

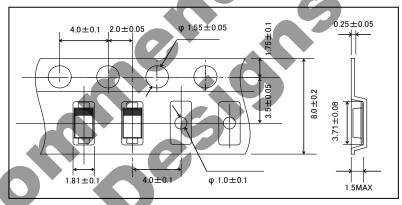


# ●Land Size Figure(Unit : mm)





# ●Taping Dimensions(Unit: mm)



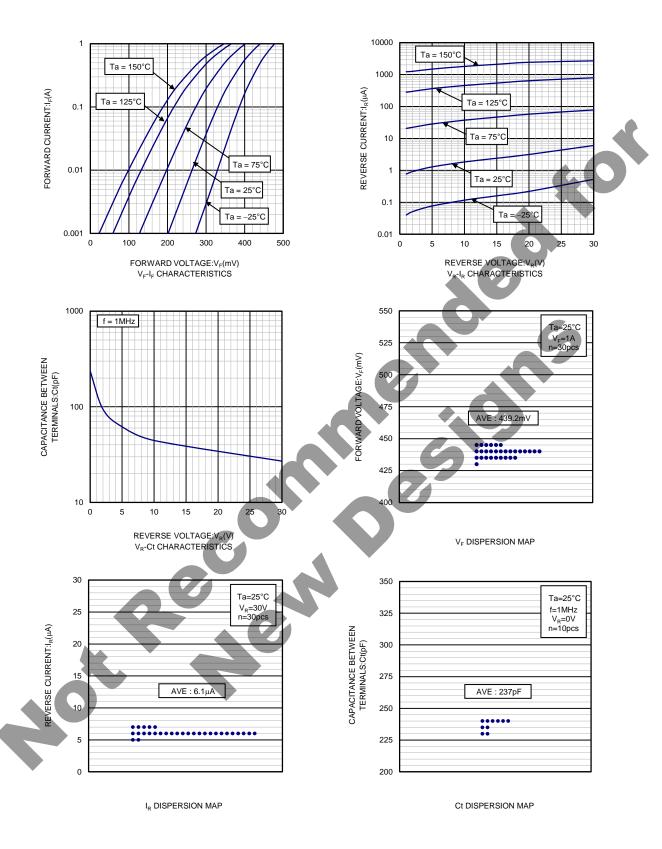
# ● Absolute Maximum Ratings(Ta=25°C)

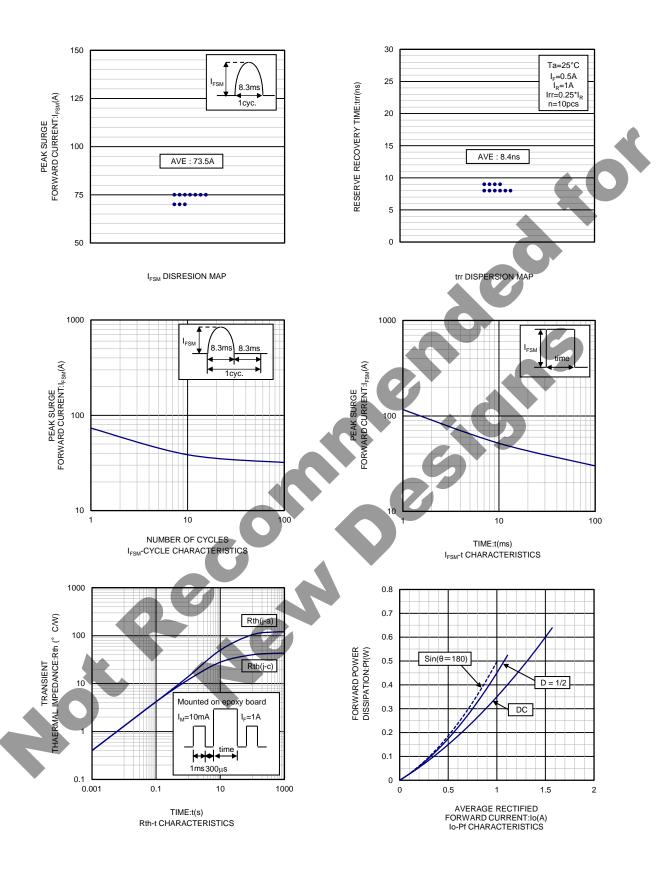
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current (*1)	lo	1	А
Forward current surge peak (60Hz-1cyc)	I <sub>FSM</sub>	30	А
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

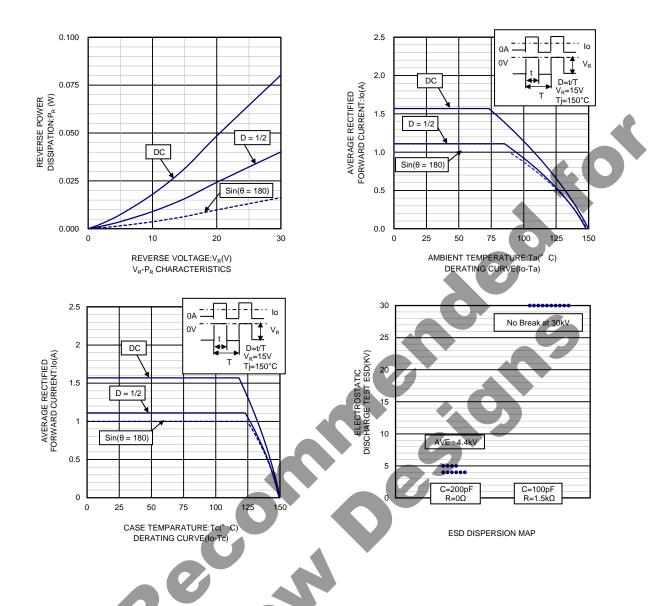
(\*1)Mounting on epoxi board. 180°Half sine wave

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub> 1	_	0.44	0.52	V	I <sub>F</sub> =1.0A
Reverse current	I <sub>R</sub>	_	10	100	μΑ	V <sub>R</sub> =30V







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(Note1) Medical Equipment Classification of the Specific Applications

Ī	JAPAN	USA	EU	CHINA
ſ	CLASSⅢ	CLASSIII	CLASSIIb	CLASSIII
Į	CLASSIV		CLASSⅢ	CLASSII

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- 8. Confirm that operation temperature is within the specified range described in the product specification.
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- 1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- 2. In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

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- 1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
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#### **Precaution for Electrostatic**

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of lonizer, friction prevention and temperature / humidity control).

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  - [b] the temperature or humidity exceeds those recommended by ROHM
  - [c] the Products are exposed to direct sunshine or condensation
  - [d] the Products are exposed to high Electrostatic
- 2. Even under ROHM recommended storage condition, solderability of products out of recommended storage time period may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is exceeding the recommended storage time period.
- 3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
- 4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

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