

Features

High reliability Small mold type Super low I<sub>R</sub>

# **RB168VAM-60**

Schottky Barrier Diode

## Data sheet

**Embossed** Tape

180

8

3000

TR 62

V <sub>R</sub>	60	V
Ι <sub>ο</sub>	1	А
IFSM	5	А

<ul> <li>Outline</li> </ul>			
Pakage Code	SOD-323HE		
JEITA Code	SC-108B		
ROHM Code	TUMD2M		
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● Inner C	ircuit		
(2) 아	<b>•</b>	——o (1)	(1)Cathode (2)Anode
			(2)/ 11000

Packing

Reel Size(mm)

Taping Width(mm)

Basic Ordering Unit(pcs)

Taping Code

Marking

Application
 General rectification

Structure
 Silicon epitaxial planar

## ● Absolute Maximum Ratings (T<sub>c</sub>=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V <sub>RM</sub>	Duty≦0.5	60	V
Reverse voltage	V <sub>R</sub>	Reverse direct voltage	60	V
Average rectified forward current	Ι <sub>ο</sub>	Glass epoxy mounted, 60Hz half sin waveform, resistive load, T <sub>c</sub> =100℃ Max.	1	А
Peak forward surge current	IFSM	60Hz half sin waveform, Non-repetitive, one cycle, T <sub>a</sub> =25°c	5	A
Junction temperature	Tj	-	150	°C
Storage temperature	T <sub>stg</sub>	-	-55 ~ 150	°C

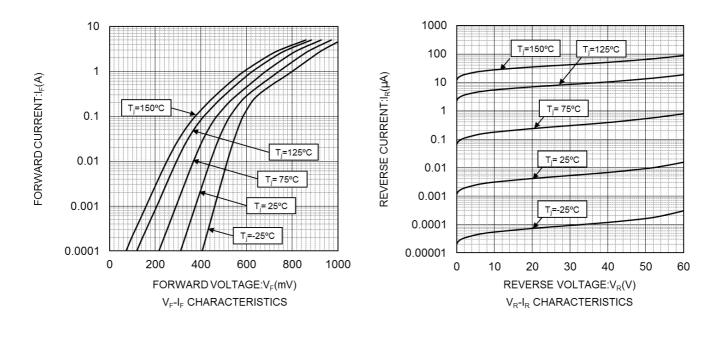
### Characteristics (T<sub>i</sub>=25°C unless otherwise specified)

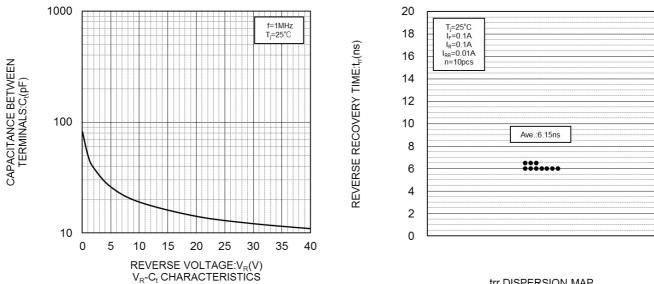
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	VF	I <sub>F</sub> =1A	-	-	0.82	V
Reverse current	l <sub>R</sub>	V <sub>R</sub> =60V	-	-	1	μA

#### Attention

Compared with PN junction diodes, Schottky Barrier Diode is generally high reverse current (IR). The reverse loss of the diode might increase as temperature increasing that causes heat-up and further IR. This phenomenon might end up the thermal destruction(thermal runaway). Therefore please give consideration to the reverse loss and the ambient temperature when using this product.

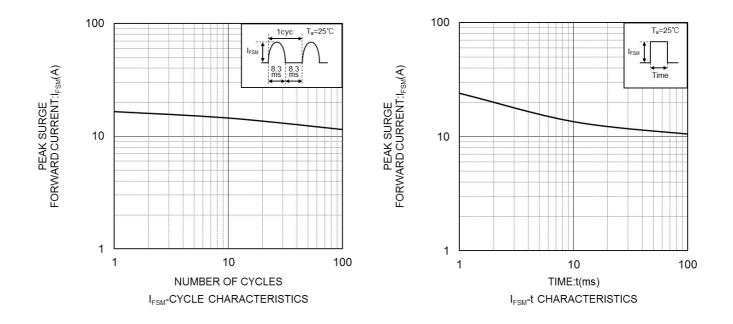
## Characteristic Curves

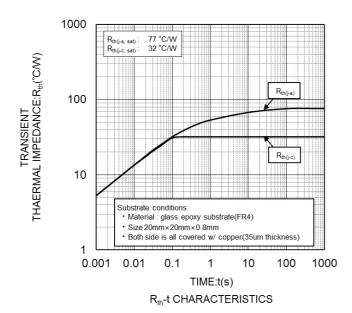




trr DISPERSION MAP

## Characteristic Curves

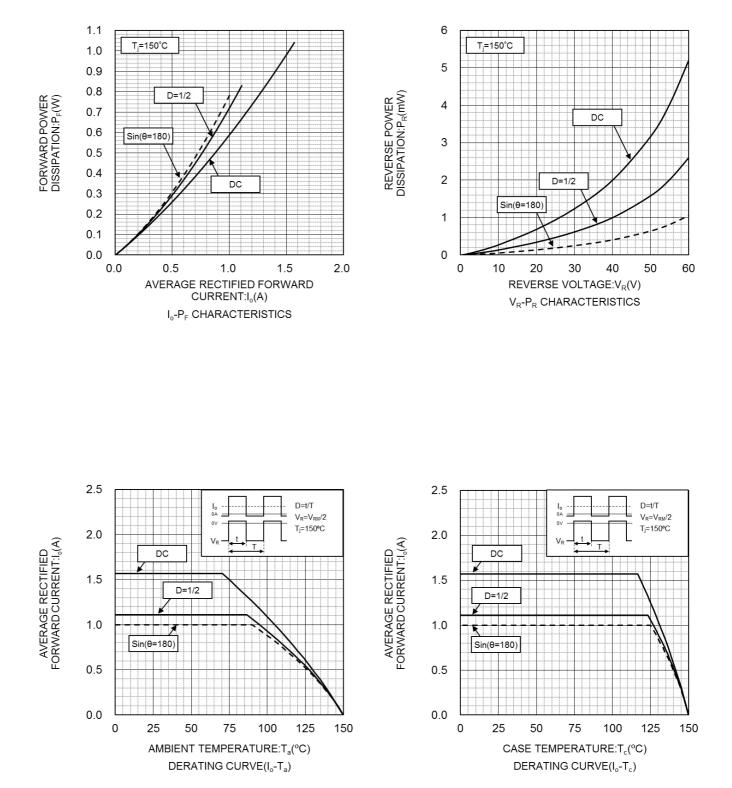




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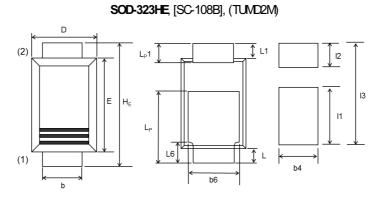


## Characteristic Curves





## Dimensions

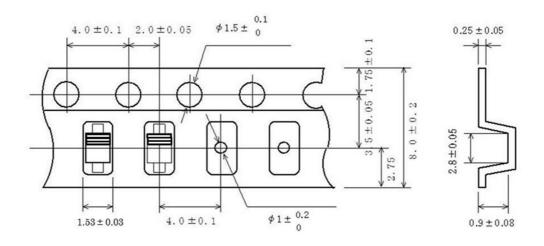




DIM	Milimeters			Inches			
DIN	Min.		Average Max.		Average	age Max.	
A	0.50	0.60	0.80	0.020	0.024	0.031	
b	0.75	0.80	0.85	0.030	0.031	0.033	
b6	0.90	1.00	1.10	0.035	0.039	0.043	
С	0.12	0.17	0.27	0.005	0.007	0.011	
D	1.30	1.40	1.50	0.051	0.055	0.059	
E	1.90	2.00	2.10	0.075	0.079	0.083	
HE	2.30	2.50	2.70	0.091	0.098	0.106	
L	-	0.25	-	-	0.010	-	
L1	-	0.25	-	-	0.010	-	
L6	-	0.45	-	-	0.018	-	
Lp	1.40	1.50	1.60	0.055	0.059	0.063	
Lp1	0.30	0.40	0.50	0.012	0.016	0.020	
b4	-	1.10	-	-	0.043	-	
11	-	2.00	-	-	0.079	-	
12	-	0.80	-	-	0.031	-	
13	-	3.30	-	-	0.130	-	

(1) The marking bar indicates the cathode.(2) The direction indicates the anode.

•Taping (Unit:mm)



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For details, please refer to ROHM Mounting specification

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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
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- 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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