

Features

High reliability Small mold type Super low I_R

RB168VAM-60

Schottky Barrier Diode

Data sheet

Embossed Tape

180

8

3000

TR 62

| V _R | 60 | V |
|----------------|----|---|
| Ι _ο | 1 | А |
| IFSM | 5 | А |

| Outline | | | |
|-----------------------------|-----------|---------|---|
| Pakage Code | SOD-323HE | | |
| JEITA Code | SC-108B | | |
| ROHM Code | TUMD2M | | |
| | (2) | | ja kalendar ale |
| ● Inner C | ircuit | | |
| (2) 아 | • | ——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_c=25°C unless otherwise specified)

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

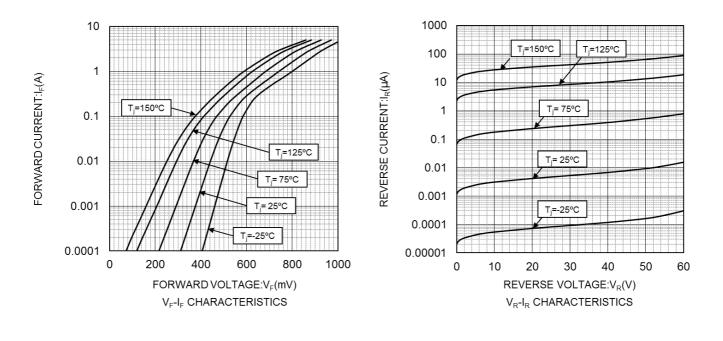
Characteristics (T_i=25°C unless otherwise specified)

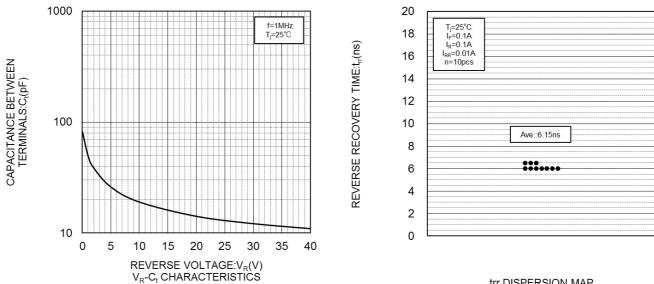
| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Unit |
|-----------------|----------------|---------------------|------|------|------|------|
| Forward voltage | VF | I _F =1A | - | - | 0.82 | V |
| Reverse current | l _R | V _R =60V | - | - | 1 | μA |

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.

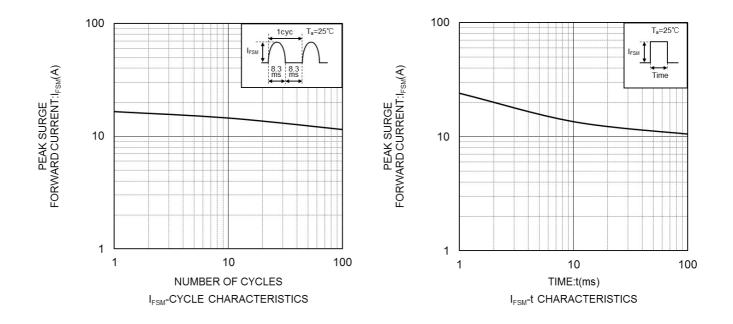
Characteristic Curves

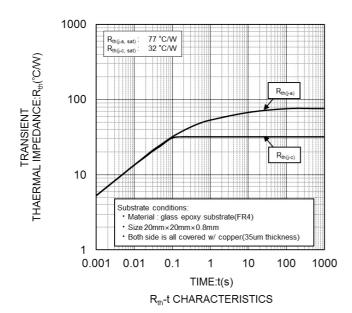




trr DISPERSION MAP

Characteristic Curves

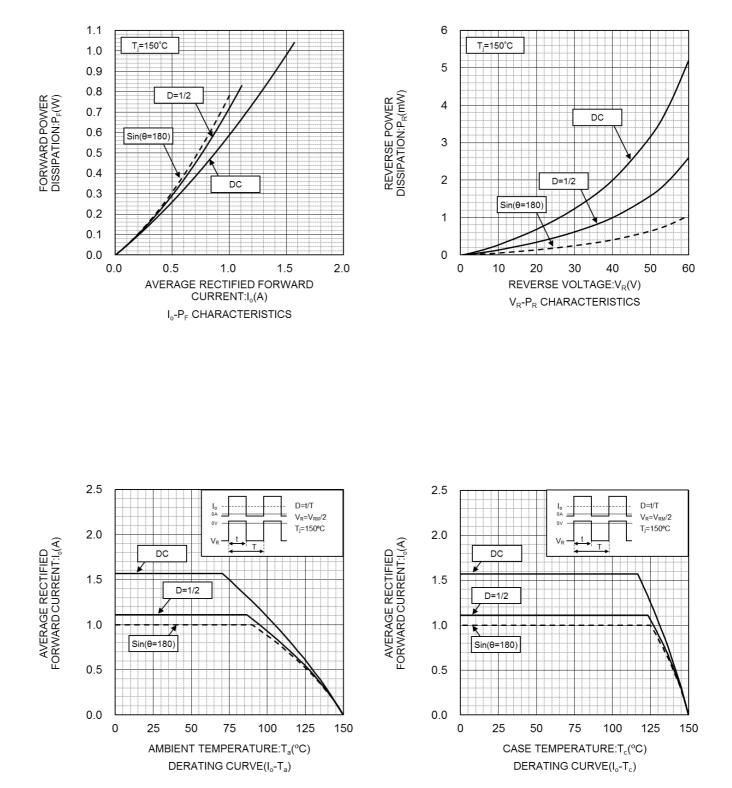




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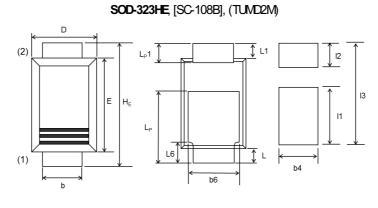


Characteristic Curves





Dimensions

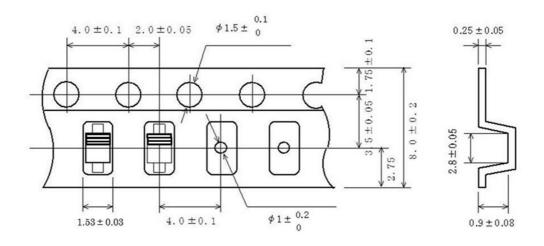




| DIM | | Milimeters | | | Inches | |
|-----|------|------------|------|-------|---------|-------|
| DIN | Min. | Average | Max. | Min. | Average | Max. |
| A | 0.50 | 0.60 | 0.80 | 0.020 | 0.024 | 0.031 |
| b | 0.75 | 0.80 | 0.85 | 0.030 | 0.031 | 0.033 |
| b6 | 0.90 | 1.00 | 1.10 | 0.035 | 0.039 | 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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| (Note1) Medical Equipment Classification of the Specific Applications |
|---|
|---|

| JÁPAN | USA | EU | CHINA |
|--------|----------|------------|---------|
| CLASSⅢ | CLASSII | CLASS II b | CLASSII |
| CLASSⅣ | CLASSIII | CLASSⅢ | CLASSI |

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- 7. De-rate Power Dissipation depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
- 8. Confirm that operation temperature is within the specified range described in the product specification.
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For details, please refer to ROHM Mounting specification

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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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A two-dimensional barcode printed on ROHM Products label is for ROHM's internal use only.

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RB168VAM-60 - Web Page

Distribution Inventory

| Part Number | RB168VAM-60 |
|-----------------------------|-------------|
| Package | TUMD2M |
| Unit Quantity | 3000 |
| Minimum Package Quantity | 3000 |
| Packing Type | Taping |
| Constitution Materials List | inquiry |
| RoHS | Yes |