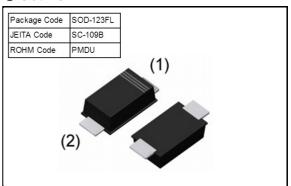
Data sheet

| SEMICONDUCTOR |
|---------------|
|---------------|

| V_{R} | 30 | V |
|------------------|-----|---|
| l _o | 1.5 | Α |
| I _{FSM} | 30 | Α |

Outline

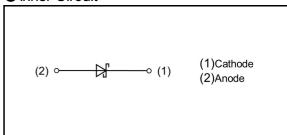


Features High reliability

Small power mold type

Low V_{F}

Inner Circuit



Application General rectification

Structure Silicon epitaxial planar Packaging Specifications

| T doraging opcomoduons | | | | | |
|------------------------|---------------|--|--|--|--|
| Packing | Embossed Tape | | | | |
| Reel Size(mm) | 180 | | | | |
| Taping Width(mm) | 8 | | | | |
| Quantity(pcs) | 3000 | | | | |
| Taping Code | TR | | | | |
| Marking | 79 | | | | |

● Absolute Maximum Ratings (T_c=25°C unless otherwise specified)

| Parameter | Symbol | Conditions | Limits | Unit |
|-------------------------------------|------------------|---|-----------|------|
| Repetitive peak reverse voltage | V_{RM} | Duty≦0.5 | 30 | V |
| Reverse voltage | V_{R} | Reverse direct voltage | 30 | V |
| Average rectified forward current | lo | Glass epoxy mounted, 60Hz half sin waveform, resistive load, T _c =115°c Max. | 1.5 | А |
| Peak forward surge current | IFSM | 60Hz half sin waveform, Non-repetitive, one cycle, T _a =25°c | 30 | Α |
| Junction temperature ⁽¹⁾ | Tj | - | 150 | °C |
| Storage temperature | T _{stg} | - | -40 ~ 150 | °C |

Note(1) To avoid occurrence of thermal runaway, actual board is to be designed to fulfill dP_d/dT_j<1/R_{th(j-a)}.

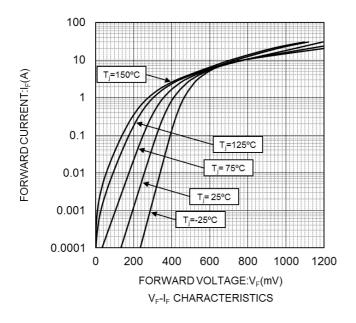
● Characteristics (T_i=25°C unless otherwise specified)

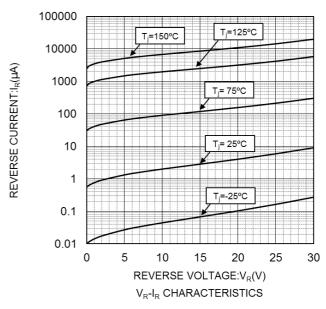
| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Unit |
|-----------------|-----------------|----------------------|------|------|------|------|
| Forward voltage | V _{F1} | I _F =0.5A | - | 0.37 | 0.43 | V |
| Forward voltage | V_{F2} | I _F =1.5A | - | 0.44 | 0.49 | V |
| Reverse current | I _R | V _R =30V | ı | 9 | 50 | μA |

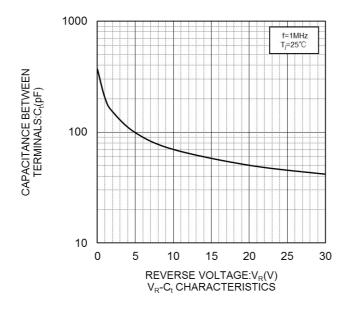
Attention

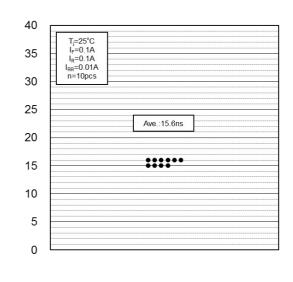
Compared with PN junction diodes, Schottky Barrier Diode is generally high reverse current (IR). The reverse loss of the diode might increase as temperature increasing that causes heat-up and further IR. This phenomenon might end up the thermal destruction(thermal runaway). Therefore please give consideration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

Characteristic Curves





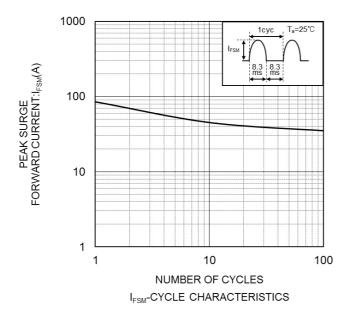


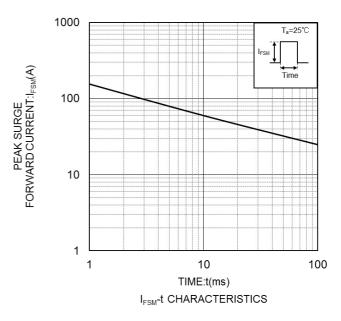


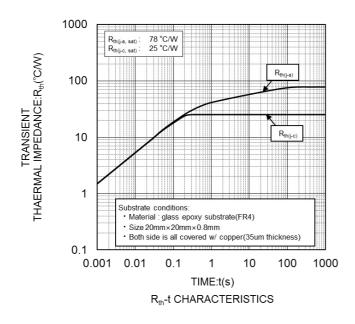
trr DISPERSION MAP

REVERSE RECOVERY TIME:t_r(ns)

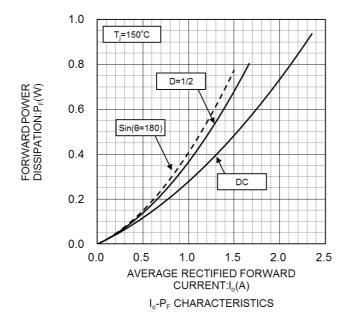
Characteristic Curves

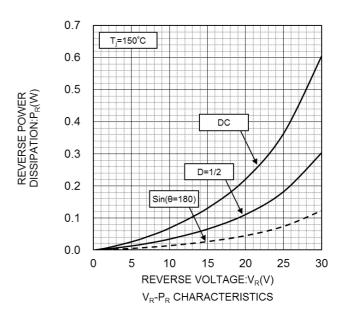


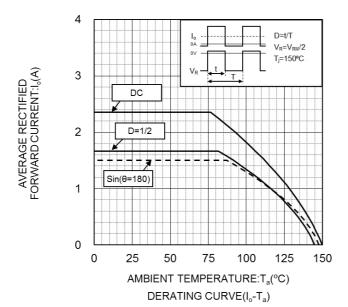


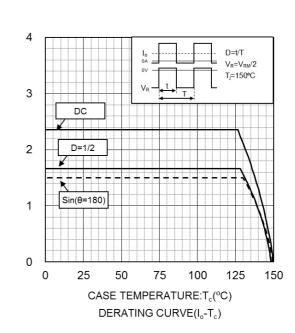


Characteristic Curves



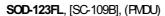


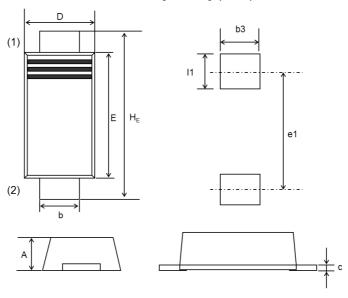




AVERAGE RECTIFIED FORWARD CURRENT:1_o(A)

Dimensions

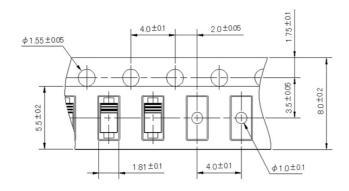


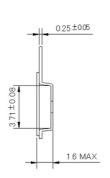


| DIM | | Milimeters | | | Inches | |
|-------|------|------------|------|-------|---------|-------|
| DIIVI | Min. | Average | Max. | Min. | Average | Max. |
| Α | 0.70 | 0.80 | 0.90 | 0.028 | 0.031 | 0.035 |
| b | 0.80 | 0.90 | 1.00 | 0.031 | 0.035 | 0.039 |
| С | 0.05 | 0.10 | 0.20 | 0.002 | 0.004 | 0.008 |
| D | 1.50 | 1.60 | 1.70 | 0.059 | 0.063 | 0.067 |
| E | 2.50 | 2.60 | 2.70 | 0.098 | 0.102 | 0.106 |
| HE | 3.38 | 3.50 | 3.62 | 0.133 | 0.138 | 0.143 |
| I1 | - | 0.85 | - | - | 0.033 | - |
| b3 | - | 1.20 | - | - | 0.047 | |
| e1 | - | 3.05 | - | - | 0.120 | - |

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

● Taping (Unit:mm)





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| JAPAN | USA | EU | CHINA |
|---------|----------|------------|-----------|
| CLASSⅢ | CLACCIII | CLASS II b | CL ACCIII |
| CLASSIV | CLASSIII | CLASSⅢ | CLASSⅢ |

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 - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
 - [f] Sealing or coating our Products with resin or other coating materials
 - [g] Use of our Products without cleaning residue of flux (Exclude cases where no-clean type fluxes is used. However, recommend sufficiently about the residue.); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
 - [h] Use of the Products in places subject to dew condensation
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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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