

Features

Low V_F

High reliability

Small power mold type

RB162L-60

Schottky Barrier Diode

Data sheet

V _R	60	V
Ι _ο	1	А
IFSM	20	А

 Outline
 Package Code DO-214AC(SMA) JEITA Code -ROHM Code PMDS
 Image: Contemporative of the second seco

- Application
 General rectification
- Structure
 Silicon epitaxial planar

Packaging Specifications

Embossed Tape	
180	
12	
1500	
TE25	
49	

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

0 · 4				
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V _{RM}	Duty≦0.5	60	V
Reverse voltage	VR	Reverse direct voltage	60	V
		Glass epoxy mounted, 60Hz half sin waveform, resistive load	1	А
Peak forward surge current	IFSM	60Hz half sin waveform, Non-repetitive, one cycle, T _a =25°c	20	А
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 dPd/dTj<1/Rth(j-a).

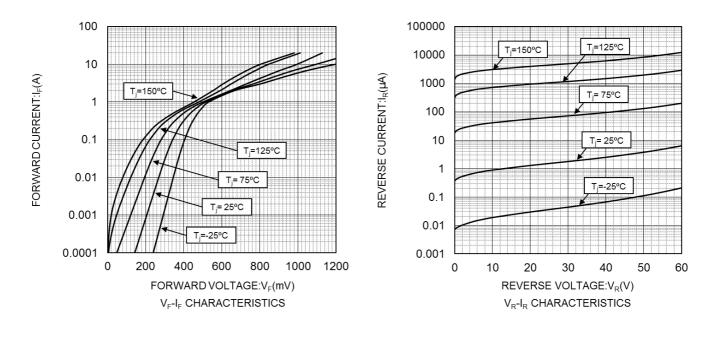
Characteristics (T_a=25°C unless otherwise specified)

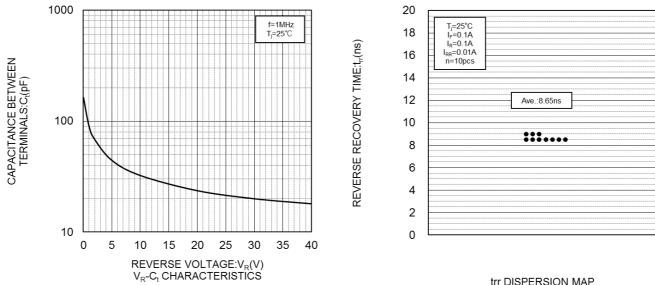
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	VF	I _F =1A	-	-	0.65	V
Reverse current	l _R	V _R =60V	-	-	100	μA

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.

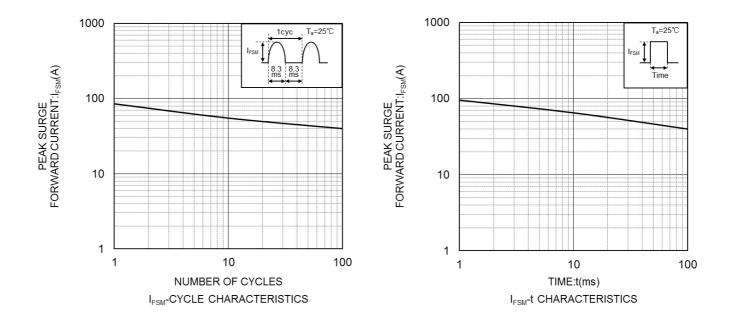
Characteristic Curves

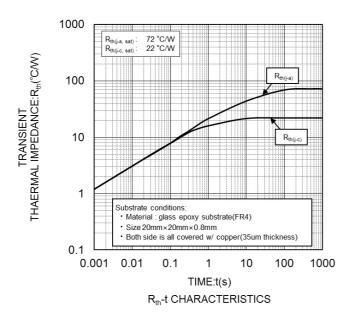




trr DISPERSION MAP

Characteristic Curves

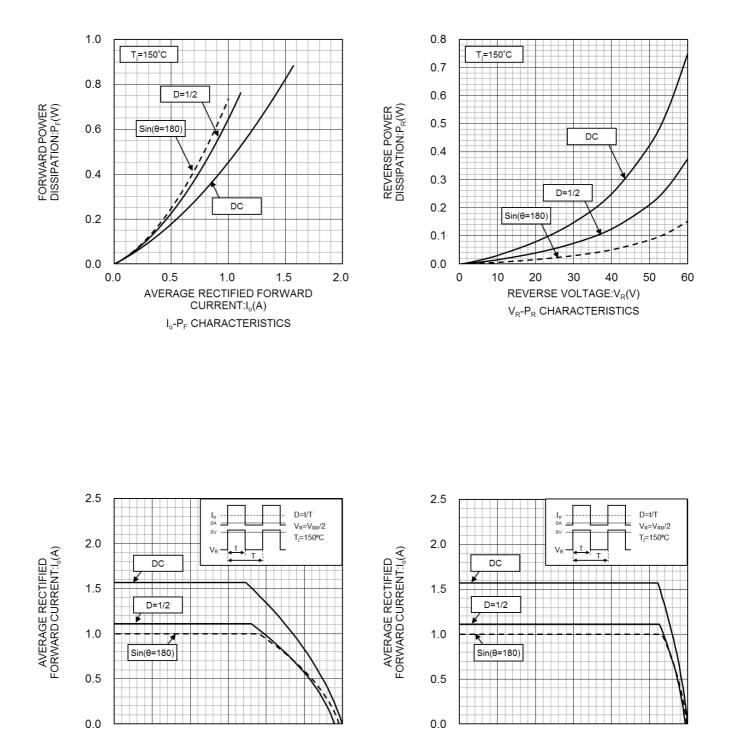




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Characteristic Curves



0

25

50

75

AMBIENT TEMPERATURE: Ta(°C)

DERATING CURVE(I₀-T_a)



125

100

150

25

50

0

125

150

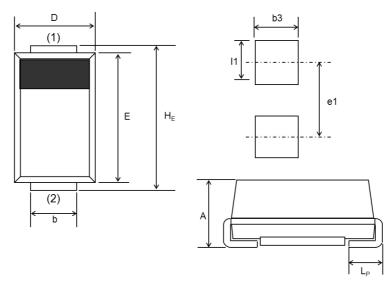
100

75

CASE TEMPERATURE: T_c (°C) DERATING CURVE(I_o - T_c)

Dimensions

DO-214AC(SMA), (PVDS)

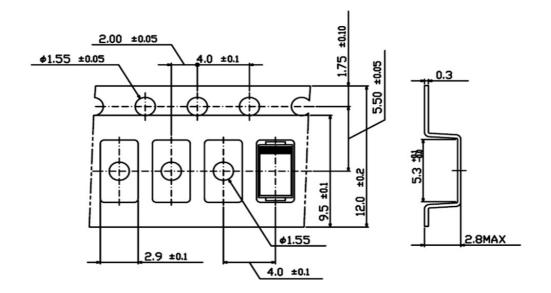


DIM		Inches				
DIM	Min.	Average	Max.	Min.	Average	Max.
A	1.80	2.00	2.20	0.071	0.079	0.087
b	1.30	1.50	1.70	0.051	0.059	0.067
D	2.40	2.60	2.80	0.094	0.102	0.110
E	4.30	4.50	4.70	0.169	0.177	0.185
HE	4.70	5.00	5.30	0.185	0.197	0.209
Lp	0.90	1.20	1.50	0.035	0.047	0.059
1	-	2.00	-	-	0.079	-
b3	-	2.00	-	-	0.079	-
e1	-	4.20	-	-	0.165	-

(1) The marking bar indicates the cathode.

(2) The direction indicates the anode.

•Taping (Unit:mm)







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CLASSⅢ		CLASS II b	
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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
- 4. The Products are not subject to radiation-proof design.
- 5. Please verify and confirm characteristics of the final or mounted products in using the Products.
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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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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).

Precaution for Storage / Transportation

- 1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
 - [a] the Products are exposed to sea winds or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [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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