

Features

Low V_F

High reliability Small mold type

RB160VAM-60

Schottky Barrier Diode

Data sheet

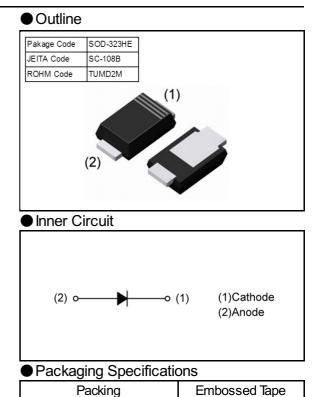
180

8

3000

TR 7

V _R	60	V
Ι _ο	1	А
IFSM	5	А



Reel Size(mm)

Taping Width(mm)

Basic Ordering Unit(pcs)

Taping Code

- Application
 General rectification
- Structure
 Silicon epitaxial planar

● Absolute Maximum Ratings (T_c=25^oC unless otherwise specified)

		I /		
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	nt l _o Gass epoxy mounted, 60Hz half sin waveform, resistive load, T _c =87°c Max.		1	А
Peak forward surge current	IFSM	60Hz half sin waveform, Non-repetitive, one cycle, T _a =25°c	5	А
Junction temperature ⁽¹⁾	Tj	-	150	°C
Storage temperature	T _{stg}	-	-55 ~ 150	°C
	and the second for the large	designed to fulfill all /all all		

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

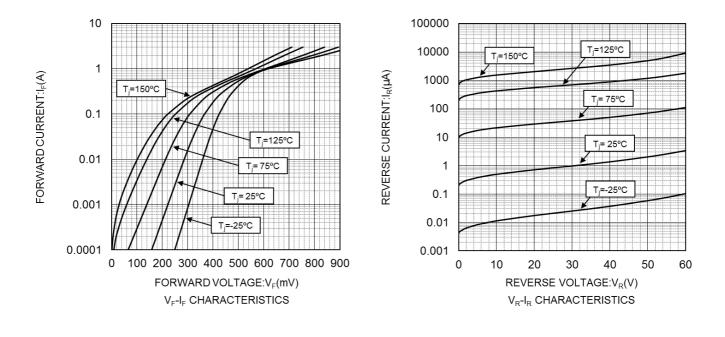
Characteristics (T_i=25°C unless otherwise specified)

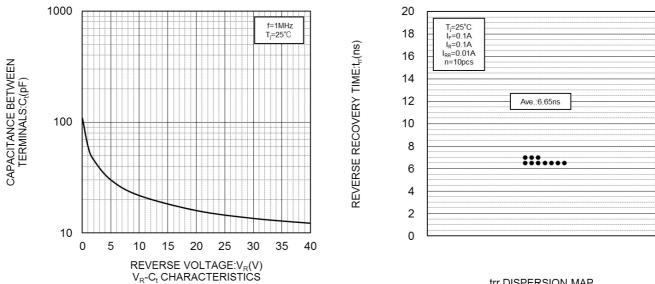
· J						
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
	V _{F1}	I _F =0.1A	-	0.365	0.43	V
Forward voltage	V _{F2}	I _F =0.7A	-	0.54	0.61	V
	V _{F3}	I _F =1.0A	-	0.61	0.67	V
Reverse current	I _R	V _R =60V	-	-	40	μA

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

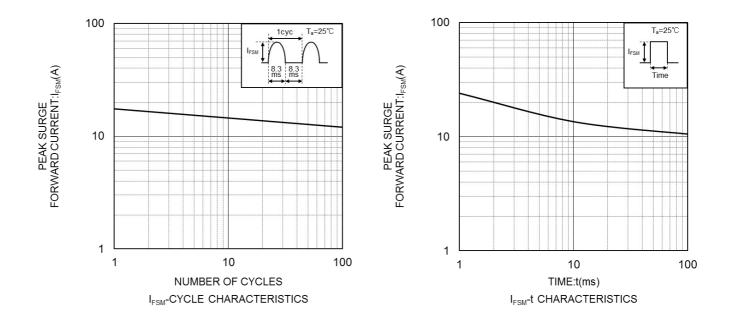


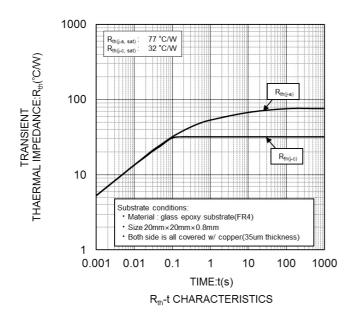


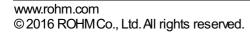
trr DISPERSION MAP



Characteristic Curves

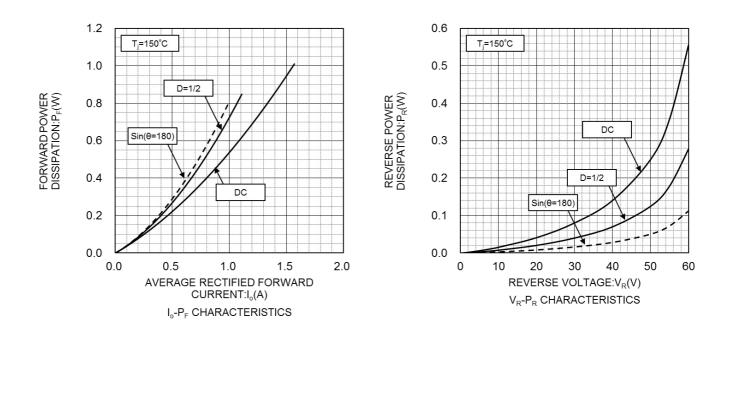


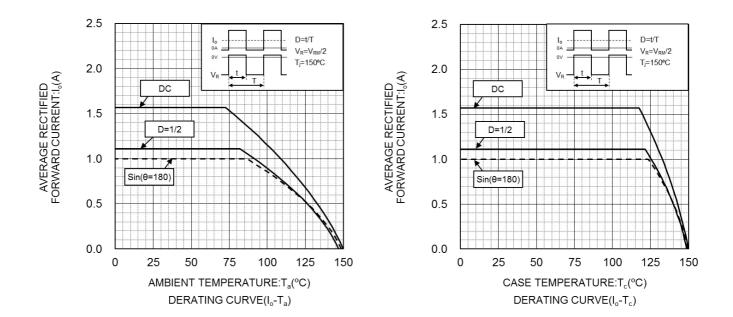






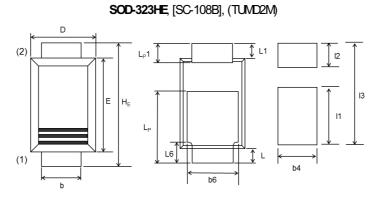
Characteristic Curves







Dimensions

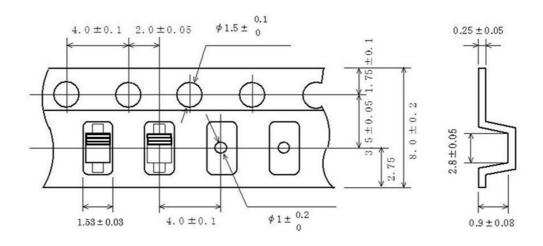




DIM	Milimeters		Inches			
DIN	Min.	Average	Max.	Min.	Average	Max.
A	0.50	0.60	0.80	0.020	0.024	0.031
b	0.75	0.80	0.85	0.030	0.031	0.033
b6	0.90	1.00	1.10	0.035	0.039	0.043
С	0.12	0.17	0.27	0.005	0.007	0.011
D	1.30	1.40	1.50	0.051	0.055	0.059
E	1.90	2.00	2.10	0.075	0.079	0.083
HE	2.30	2.50	2.70	0.091	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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JÁPAN	USA	EU	CHINA
CLASSⅢ	CLASSⅢ	CLASS II b	CLASSⅢ
CLASSⅣ	CLASSII	CLASSⅢ	CLASSI

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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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 - [c] the Products are exposed to direct sunshine or condensation
 - [d] the Products are exposed to high Electrostatic
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