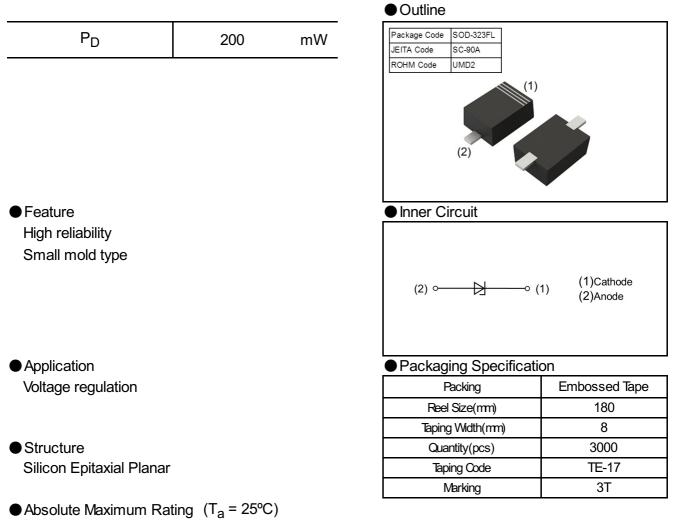


UDZLVFH68

Zener Diode

(AEC-Q101 qualified) Data sheet



Parameter	Symbol	Limits	Unit
Power dissipation	PD	200	mW
Junction temperature	Тј	150	°C
Storage temperature	T _{stg}	-55 ~ 150	°C

UDZLVFH Series

Data sheet

• Characteristic ($T_a = 25^{\circ}C$)

	Symbol						
P/N	Zener Voltage : V _Z (V)			Dynamic Impedance : $Z_Z(\Omega)$		Reverse Current : $I_R(\mu A)$	
	MN.	MAX.	I _z (mA)	MAX.	l _z (mA)	MAX.	V _R (V)
UDZLVFH 51	48.0	54.0	2	180	2	1	39
UDZLVFH 56	53.0	60.0	2	180	2	1	43
UDZLVFH 62	58.0	66.0	2	200	2	0.2	47
UDZLVFH 68	64.0	72.0	2	250	2	0.2	52
UDZLVFH 75	70.0	79.0	2	300	2	0.2	57
UDZLVFH 82	77.0	87.0	2	300	2	0.2	63
UDZLVFH 91	85.0	96.0	1	700	1	0.2	69
UDZLVFH 100	94.0	106.0	1	700	1	0.2	76
UDZLVFH 110	104.0	116.0	1	800	1	0.2	84
UDZLVFH 120	114.0	126.0	1	900	1	0.2	91
UDZLVFH 130	122.0	138.0	1	1250	1	0.2	102
UDZLVFH 150	140.0	160.0	1	1500	1	0.2	120

Zener voltage (V_Z) is measured by applying current with 40ms pulse.

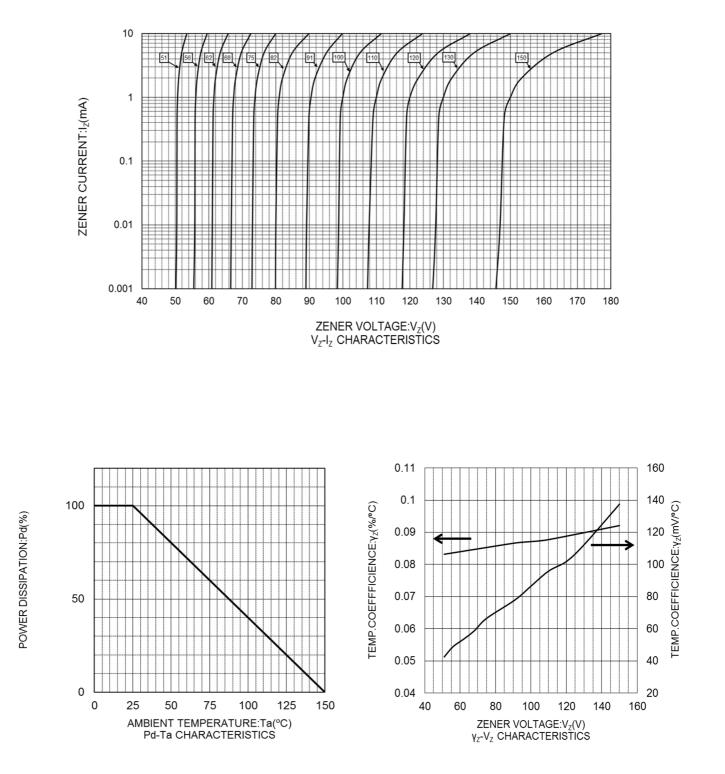
Dynamic resistance (Z_Z) is measured by applying small current (AC) and specified current (I_Z) simultaneously.

Marking

P/N	Marking	P/N	Marking
UDZLVFH 51	ОТ	UDZLVFH 91	6T
UDZLVFH 56	1T	UDZLVFH 100	7T
UDZLVFH 62	2T	UDZLVFH 110	8T
UDZLVFH 68	3T	UDZLVFH 120	9T
UDZLVFH 75	4T	UDZLVFH 130	AT
UDZLVFH 82	5T	UDZLVFH 150	BT

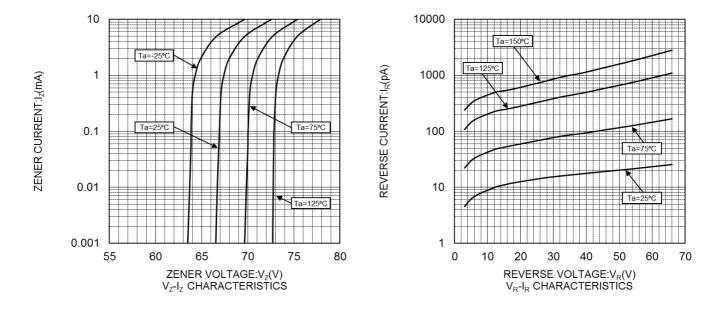


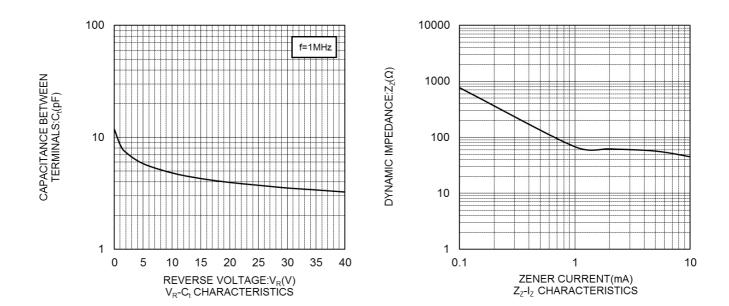
Characteristic Curves





Characteristic Curves





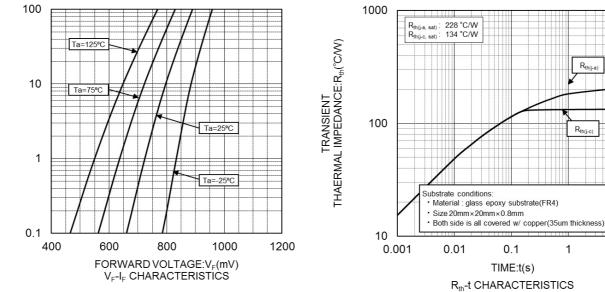
www.rohm.com © 2017 ROHM.Co., Ltd. All rights reserved.



10

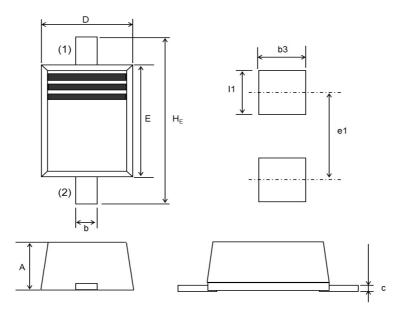
Characteristic Curves







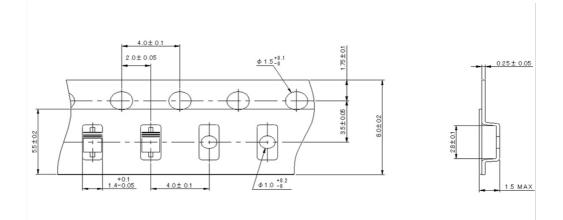
Dimension (UMD2 SOD-323F SC-90A)



DIM		Milimeters		Inches		
Min	Min.	Average	Max.	Min.	Average	Max.
А	0.60	0.70	0.90	0.024	0.028	0.035
b	0.25	0.30	0.35	0.010	0.012	0.014
С	0.05	0.10	0.20	0.002	0.004	0.008
D	1.15	1.25	1.35	0.045	0.049	0.053
E	1.60	1.70	1.80	0.063	0.067	0.071
HE	2.30	2.50	2.70	0.091	0.098	0.106
11	0.80	-	-	0.031	-	-
b3	0.90	-	-	0.035	-	-
e1	-	2.10	-	-	0.083	-

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

Taping (Unit:mm)





Notice

Precaution on using ROHM Products

If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment ^(Note 1), aircraft/spacecraft, nuclear power controllers, etc.) and whose malfunction or failure may cause loss of human life, bodily injury or serious damage to property ("Specific Applications"), please consult with the ROHM sales representative in advance. Unless otherwise agreed in writing by ROHM in advance, ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of any ROHM's Products for Specific Applications.

(Note1) Medical Equipment Classification of the Specific Ap	pplications
---	-------------

JAPAN	USA	EU	CHINA	
CLASSII	CLASSⅢ	CLASS II b	CLASSI	
CLASSIV	CLASS III	CLASSⅢ	CLASSII	

2. ROHM designs and manufactures its Products subject to strict quality control system. However, semiconductor products can fail or malfunction at a certain rate. Please be sure to implement, at your own responsibilities, adequate safety measures including but not limited to fail-safe design against the physical injury, damage to any property, which a failure or malfunction of our Products may cause. The following are examples of safety measures:

[a] Installation of protection circuits or other protective devices to improve system safety

[b] Installation of redundant circuits to reduce the impact of single or multiple circuit failure

- 3. Our Products are not designed under any special or extraordinary environments or conditions, as exemplified below. Accordingly, ROHM shall not be in any way responsible or liable for any damages, expenses or losses arising from the use of any ROHM's Products under any special or extraordinary environments or conditions. If you intend to use our Products under any special or extraordinary environments or conditions (as exemplified below), your independent verification and confirmation of product performance, reliability, etc, prior to use, must be necessary:
 - [a] Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
 - [b] Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
 - [c] Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
 - [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.
- 6. In particular, if a transient load (a large amount of load applied in a short period of time, such as pulse, is applied, confirmation of performance characteristics after on-board mounting is strongly recommended. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
- 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.
- 9. ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

Precaution for Mounting / Circuit board design

- 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

Precautions Regarding Application Examples and External Circuits

- 1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
- 2. You agree that application notes, reference designs, and associated data and information contained in this document are presented only as guidance for Products use. Therefore, in case you use such information, you are solely responsible for it and you must exercise your own independent verification and judgment in the use of such information contained in this document. ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of such information.

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.

Precaution for Product Label

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

Precaution for Disposition

When disposing Products please dispose them properly using an authorized industry waste company.

Precaution for Foreign Exchange and Foreign Trade act

Since concerned goods might be fallen under listed items of export control prescribed by Foreign exchange and Foreign trade act, please consult with ROHM in case of export.

Precaution Regarding Intellectual Property Rights

- All information and data including but not limited to application example contained in this document is for reference only. ROHM does not warrant that foregoing information or data will not infringe any intellectual property rights or any other rights of any third party regarding such information or data.
- 2. ROHM shall not have any obligations where the claims, actions or demands arising from the combination of the Products with other articles such as components, circuits, systems or external equipment (including software).
- 3. No license, expressly or implied, is granted hereby under any intellectual property rights or other rights of ROHM or any third parties with respect to the Products or the information contained in this document. Provided, however, that ROHM will not assert its intellectual property rights or other rights against you or your customers to the extent necessary to manufacture or sell products containing the Products, subject to the terms and conditions herein.

Other Precaution

- 1. This document may not be reprinted or reproduced, in whole or in part, without prior written consent of ROHM.
- 2. The Products may not be disassembled, converted, modified, reproduced or otherwise changed without prior written consent of ROHM.
- 3. In no event shall you use in any way whatsoever the Products and the related technical information contained in the Products or this document for any military purposes, including but not limited to, the development of mass-destruction weapons.
- 4. The proper names of companies or products described in this document are trademarks or registered trademarks of ROHM, its affiliated companies or third parties.

General Precaution

- 1. Before you use our Products, you are requested to care fully read this document and fully understand its contents. ROHM shall not be in an y way responsible or liable for failure, malfunction or accident arising from the use of a ny ROHM's Products against warning, caution or note contained in this document.
- 2. All information contained in this docume nt is current as of the issuing date and subj ect to change without any prior notice. Before purchasing or using ROHM's Products, please confirm the latest information with a ROHM sale s representative.
- 3. The information contained in this document is provided on an "as is" basis and ROHM does not warrant that all information contained in this document is accurate an d/or error-free. ROHM shall not be in an y way responsible or liable for any damages, expenses or losses incurred by you or third parties resulting from inaccuracy or errors of or concerning such information.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Zener Diodes category:

Click to view products by ROHM manufacturer:

Other Similar products are found below :

 RKZ13B2KG#P1
 DL5234B
 EDZTE6113B
 1N4682
 1N4691
 1N4693
 1N4732A
 1N4733A-TR
 1N4736A
 1N4750A
 1N4759ARL
 1N5241B

 1N5365B
 1N5369B
 1N747A
 1N959B
 1N964B
 1N966B
 1N972B
 NTE5116A
 NTE5121A
 NTE5147A
 NTE5152A
 NTE5155A

 NTE5164A
 JANS1N4974US
 1N4692
 1N4702
 1N4704
 1N4711
 1N4737A
 1N4745ARL
 1N4752A
 1N4752ARL

 1N4760ARL
 1N5221B
 1N5236B
 1N5241BTR
 1N5242BTR
 1N5350B
 1N5352B
 1N961BRR1
 1N964BRL
 RKZ5.1BKU#P6

 3SMAJ5950B-TP
 3SMBJ5925B-TP
 TDZTR24