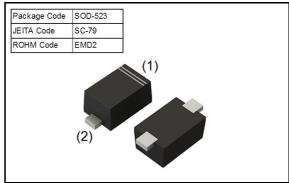
(AEC-Q101 qualified) Data sheet

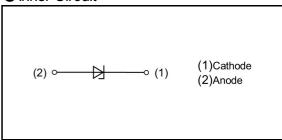
P_{D}	150	mW

Outline



FeatureHigh reliabilitySmall mold type

Inner Circuit



ApplicationVoltage regulation

● Packaging Specification

T ackaging Specification					
Packing	Embossed Tape				
Reel Size(mm)	180				
Taping Width(mm)	8				
Quantity(pcs)	8000				
Taping Code	T2R				
Marking	75				

StructureSilicon Epitaxial Planar

● Absolute Maximum Rating (T_a = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P_{D}	150	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 ~ 150	ဇ

● Characteristic (T_a = 25°C)

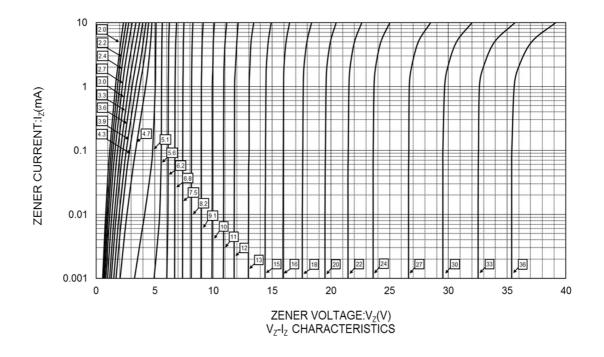
	Symbol								
P/N	Zen	er Voltage:V	Z(V)	Dynamic Impedance: $Z_Z(\Omega)$		Zener Impedance: $Z_{ZK}(\Omega)$		Reverse Current:I _R (µA)	
	MIN.	MAX.	I _z (mA)	MAX.	I _z (mA)	MAX.	I _Z (mA)	MAX.	V _R (V)
EDZVFH2.0B	2.020	2.200	5.0	100	5.0	1000	0.5	120	0.5
EDZVFH2.2B	2.220	2.410	5.0	100	5.0	1000	0.5	120	0.7
EDZVFH2.4B	2.430	2.630	5.0	100	5.0	1000	0.5	120	1.0
EDZVFH2.7B	2.690	2.910	5.0	110	5.0	1000	0.5	100	1.0
EDZVFH3.0B	3.010	3.220	5.0	120	5.0	1000	0.5	50.0	1.0
EDZVFH3.3B	3.320	3.530	5.0	120	5.0	1000	0.5	20.0	1.0
EDZVFH3.6B	3.600	3.845	5.0	100	5.0	1000	1.0	10.0	1.0
EDZVFH3.9B	3.890	4.160	5.0	100	5.0	1000	1.0	5.0	1.0
EDZVFH4.3B	4.170	4.430	5.0	100	5.0	1000	1.0	5.0	1.0
EDZVFH4.7B	4.550	4.750	5.0	100	5.0	800	0.5	2.0	1.0
EDZVFH5.1B	4.980	5.200	5.0	80	5.0	500	0.5	2.0	1.5
EDZVFH 5.6B	5.490	5.730	5.0	60	5.0	200	0.5	1.0	2.5
EDZVFH6.2B	6.060	6.330	5.0	60	5.0	100	0.5	1.0	3.0
EDZVFH6.8B	6.650	6.930	5.0	40	5.0	60	0.5	0.5	3.5
EDZVFH7.5B	7.280	7.600	5.0	30	5.0	60	0.5	0.5	4.0
EDZVFH8.2B	8.020	8.360	5.0	30	5.0	60	0.5	0.5	5.0
EDZVFH9.1B	8.850	9.230	5.0	30	5.0	60	0.5	0.5	6.0
EDZVFH 10B	9.770	10.21	5.0	30	5.0	60	0.5	0.1	7.0
EDZVFH 11B	10.76	11.22	5.0	30	5.0	60	0.5	0.1	8.0
EDZVFH 12B	11.74	12.24	5.0	30	5.0	80	0.5	0.1	9.0
EDZVFH 13B	12.91	13.49	5.0	37	5.0	80	0.5	0.1	10.0
EDZVFH 15B	14.34	14.98	5.0	42	5.0	80	0.5	0.1	11.0
EDZVFH 16B	15.85	16.51	5.0	50	5.0	80	0.5	0.1	12.0
EDZVFH 18B	17.56	18.35	5.0	65	5.0	80	0.5	0.1	13.0
EDZVFH20B	19.52	20.39	5.0	85	5.0	100	0.5	0.1	15.0
EDZVFH22B	21.54	22.47	5.0	100	5.0	100	0.5	0.1	17.0
EDZVFH24B	23.72	24.78	5.0	120	5.0	120	0.5	0.1	19.0
EDZVFH27B	26.19	27.53	2.0	150	2.0	150	0.5	0.1	21.0
EDZVFH30B	29.19	30.69	2.0	200	2.0	200	0.5	0.1	23.0
EDZVFH33B	32.15	33.79	2.0	250	2.0	250	0.5	0.1	25.0
EDZVFH36B	35.07	36.87	2.0	300	2.0	300	0.5	0.1	27.0

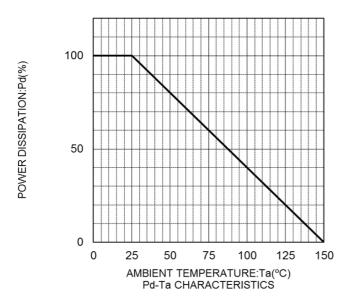
Zener voltage (V_Z) is measured by applying current with 40ms pulse. Dynamic resistance (Z_Z) is measured by applying small current (AC) and specified current (I_Z) simultaneously.

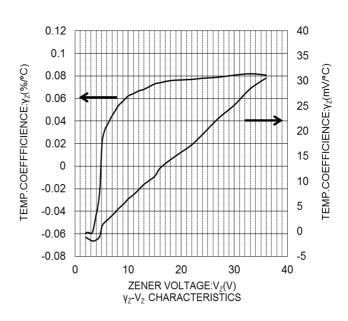
Marking

P/N	Marking	P/N	Marking
EDZVFH2.0B	02	EDZVFH9.1B	L2
EDZVFH2.2B	12	EDZVFH 10B	05
EDZVFH2.4B	22	EDZVFH 11B	15
EDZVFH2.7B	32	EDZVFH 12B	25
EDZVFH3.0B	42	EDZVFH 13B	35
EDZVFH 3.3B	52	EDZVFH 15B	45
EDZVFH 3.6B	62	EDZVFH 16B	55
EDZVFH 3.9B	72	EDZVFH 18B	65
EDZVFH4.3B	82	EDZVFH20B	75
EDZVFH4.7B	92	EDZVFH22B	85
EDZVFH 5.1B	A2	EDZVFH24B	95
EDZVFH 5.6B	ଧ	EDZVFH27B	A5
EDZVFH 6.2B	E2	EDZVFH30B	C 5
EDZVFH 6.8B	F2	EDZVFH33B	B
EDZVFH 7.5B	H2	EDZVFH36B	F5
EDZVFH 8.2B	J2		

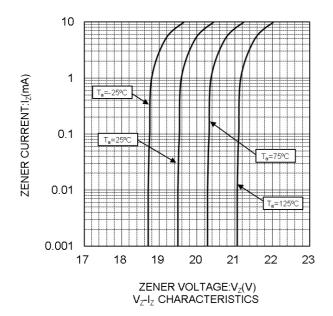
Characteristic Curves

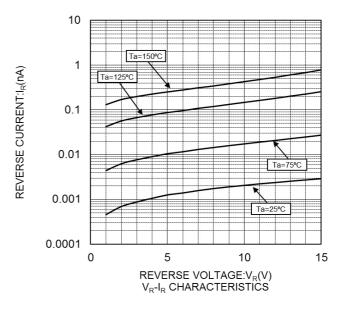


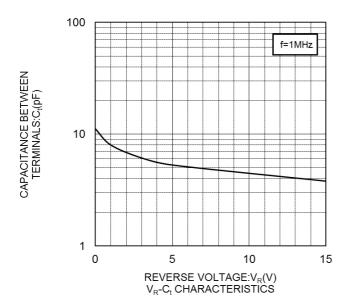


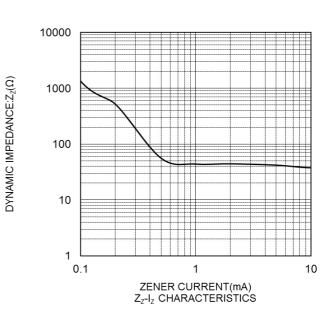


Characteristic Curves

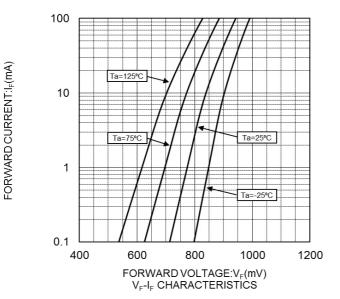


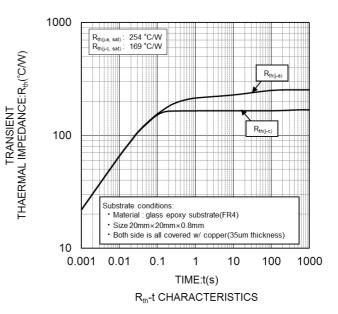




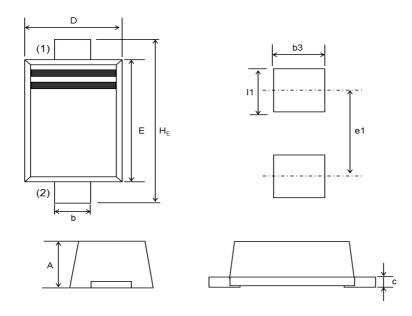


Characteristic Curves





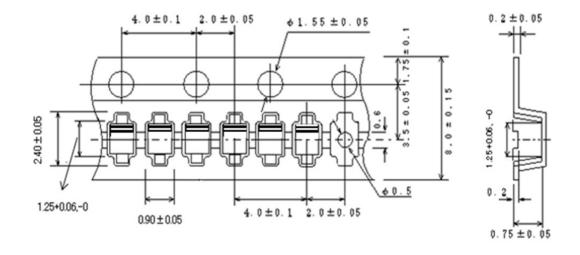
● Dimension (EMD2 SOD-523 SC-79)



DIM	Milimeters			Inches		
DIIVI	Min.	Average	Max.	Min.	Average	Max.
Α	0.50	0.60	0.70	0.020	0.024	0.028
b	0.25	0.30	0.35	0.010	0.012	0.014
С	0.07	0.12	0.17	0.003	0.005	0.007
D	0.75	0.80	0.85	0.030	0.031	0.033
E	1.15	1.20	1.25	0.045	0.047	0.049
HE	1.50	1.60	1.70	0.059	0.063	0.067
I1	-	0.60	-	-	0.024	-
b3	-	0.80	-	-	0.031	-
e1	-	1.70	-	-	0.067	-

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

● Taping (Unit:mm)



Notice

Precaution on using ROHM Products

1. 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 Applications

ſ	JAPAN USA		EU	CHINA
Ī	CLASSⅢ	CL ACCIII	CLASS II b	СГУССШ
ſ	CLASSIV	CLASSⅢ	CLASSⅢ	CLASSⅢ

- 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.
- 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.

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- 2. All information contained in this docume nt is current as of the issuing date and subject 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 doc ument 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.

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