

P_D	250	mW
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● Feature

High reliability
Small mold type

● Application

Voltage regulation

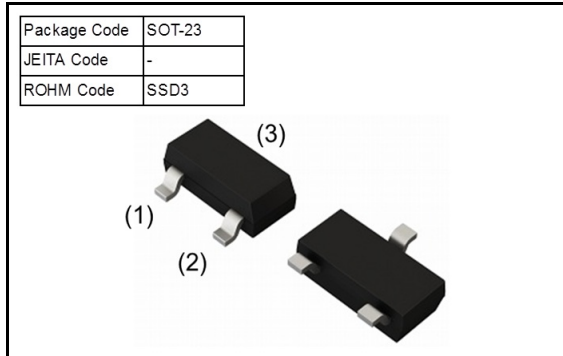
● Structure

Silicon Epitaxial Planar

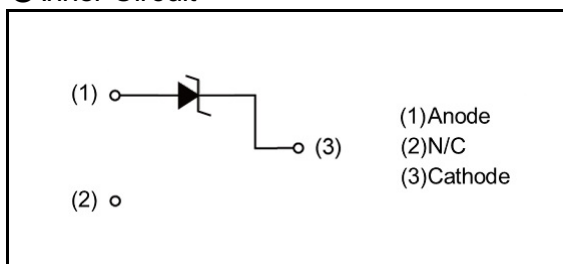
● Absolute Maximum Rating ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Condition	Limits	Unit
Power dissipation	P_D	on Glass-epoxy substrate	250	mW
			2.0	mW/°C
Junction temperature	T_j	-	150	°C
Storage temperature	T_{stg}	-	-65 ~ 150	°C

● Outline



● Inner Circuit



● Packaging Specification

Packing	Embossed Tape
Reel Size(mm)	180
Taping Width(mm)	8
Basic Ordering Unit(pcs)	3000
Taping Code	T116
Marking	D3S

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

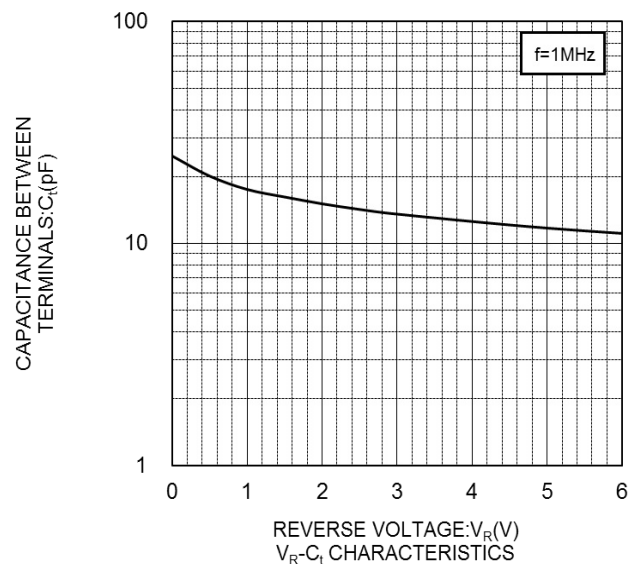
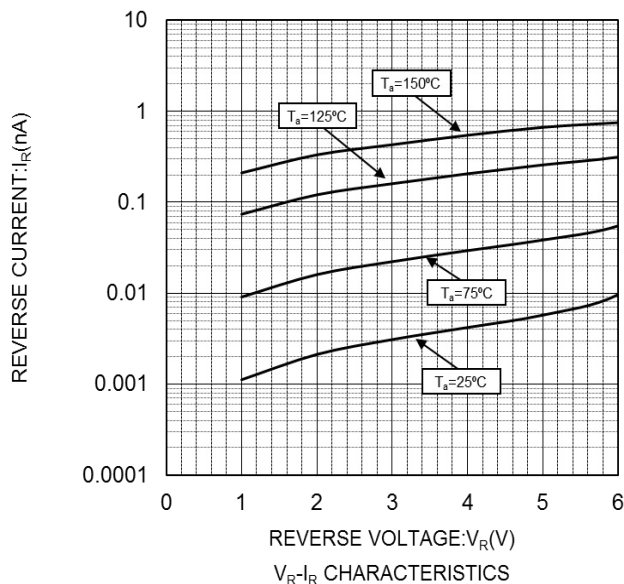
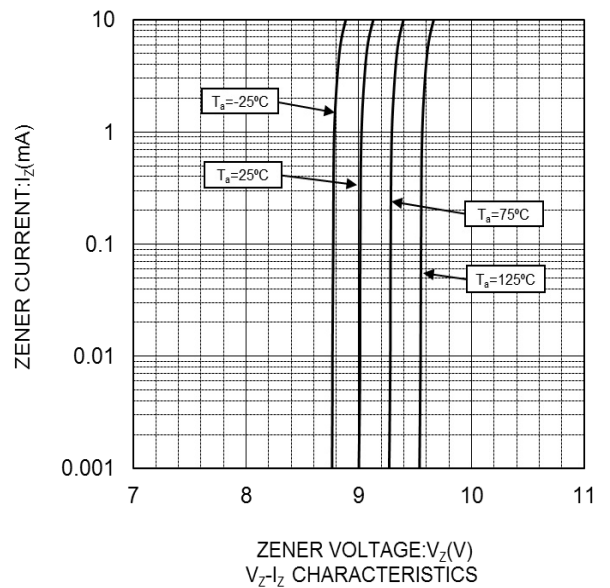
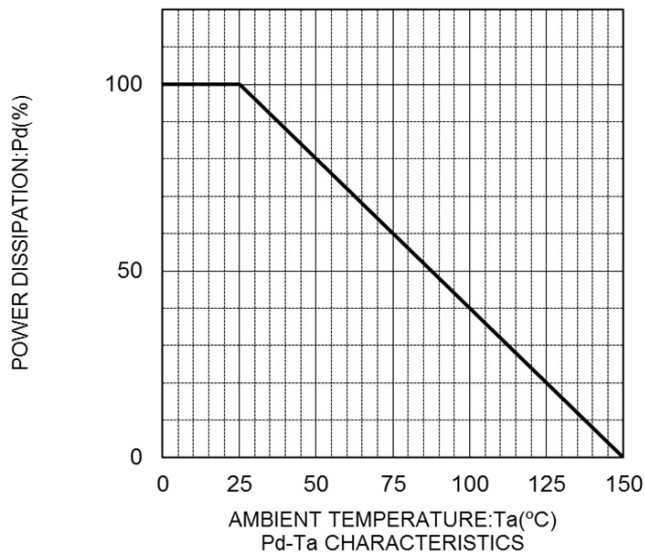
P/N	Symbol									
	Zener Voltage: V_Z (V)			Reverse Current: I_R (μA)		Dynamic Impedance: Z_Z (Ω)		Temperature Coefficient: γ_Z (mV/ $^\circ\text{C}$)		
	MIN.	MAX.	I_Z (mA)	MAX.	V_R (V)	MAX.	I_Z (mA)	MIN.	MAX.	I_Z (mA)
BZX84B5V1LFH	5.00	5.20	5	2	2.0	60	5	-1.5	2.6	5
BZX84B5V6LFH	5.49	5.71	5	1	2.0	40	5	-1.0	3.1	5
BZX84B6V2LFH	6.08	6.32	5	3	4.0	10	5	0.9	3.8	5
BZX84B6V8LFH	6.66	6.94	5	2	4.0	15	5	1.5	4.5	5
BZX84B7V5LFH	7.35	7.65	5	1	5.0	15	5	2.2	5.0	5
BZX84B8V2LFH	8.04	8.36	5	0.7	5.0	15	5	3.2	6.1	5
BZX84B9V1LFH	8.92	9.28	5	0.5	6.0	15	5	3.9	6.9	5
BZX84B10VLFH	9.80	10.20	5	0.2	7.0	20	5	5.0	8.0	5
BZX84B11VLFH	10.80	11.20	5	0.1	8.0	20	5	5.8	8.8	5
BZX84B12VLFH	11.80	12.20	5	0.1	8.0	25	5	6.8	9.8	5
BZX84B13VLFH	12.70	13.30	5	0.1	8.0	30	5	7.9	11.0	5
BZX84B15VLFH	14.70	15.30	5	0.1	10.0	30	5	9.4	12.6	5
BZX84B16VLFH	15.70	16.30	5	0.1	11.0	40	5	11.0	14.3	5
BZX84B18VLFH	17.60	18.40	5	0.1	13.0	45	5	12.6	15.8	5
BZX84B20VLFH	19.60	20.40	5	0.1	14.0	55	5	14.3	17.3	5
BZX84B22VLFH	21.60	22.40	5	0.1	15.0	55	5	15.8	19.3	5
BZX84B24VLFH	23.50	24.50	5	0.1	17.0	70	5	17.3	22.6	5
BZX84B27VLFH	26.50	27.50	2	0.1	19.0	80	2	19.3	25.8	2
BZX84B30VLFH	29.40	30.60	2	0.1	21.0	80	2	22.6	28.5	2
BZX84B33VLFH	32.30	33.70	2	0.1	23.0	80	2	25.8	31.1	2
BZX84B36VLFH	35.30	36.70	2	0.1	25.0	90	2	28.5	34.0	2

V_Z test time is 40ms

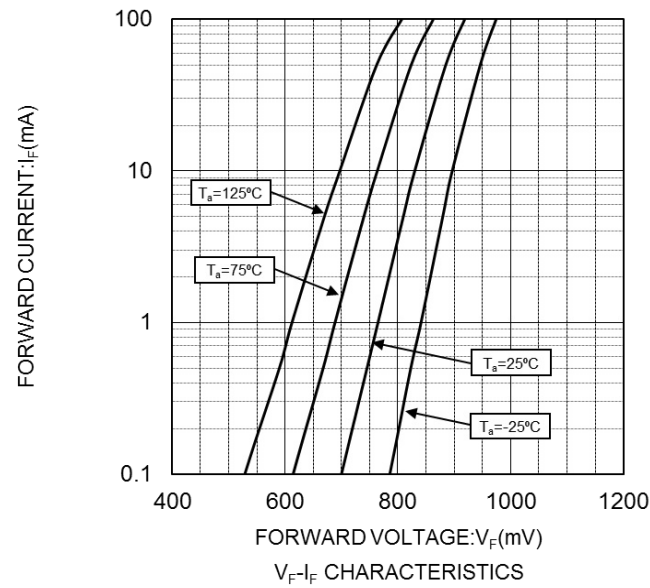
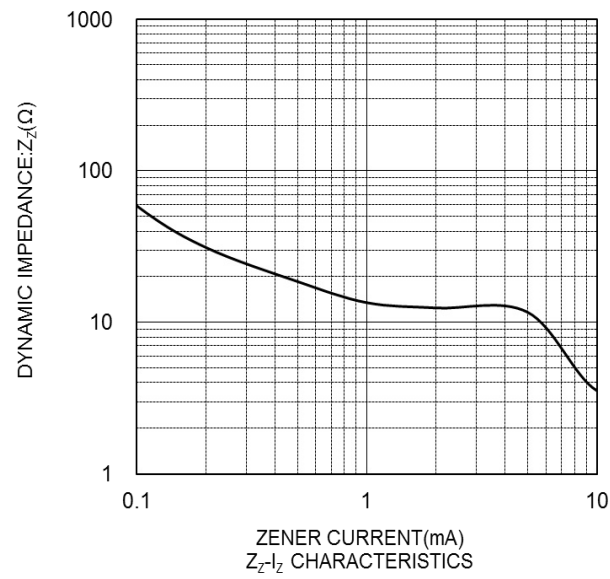
● Marking

P/N	Marking	P/N	Marking
BZX84B5V1LFH	D3L	BZX84B15VLFH	D3X
BZX84B5V6LFH	D3M	BZX84B16VLFH	D3Y
BZX84B6V2LFH	D3N	BZX84B18VLFH	D3Z
BZX84B6V8LFH	D3P	BZX84B20VLFH	D5A
BZX84B7V5LFH	D3Q	BZX84B22VLFH	D5B
BZX84B8V2LFH	D3R	BZX84B24VLFH	D5C
BZX84B9V1LFH	D3S	BZX84B27VLFH	D5D
BZX84B10VLFH	D3T	BZX84B30VLFH	D5E
BZX84B11VLFH	D3U	BZX84B33VLFH	D5F
BZX84B12VLFH	D3V	BZX84B36VLFH	D5G
BZX84B13VLFH	D3W		

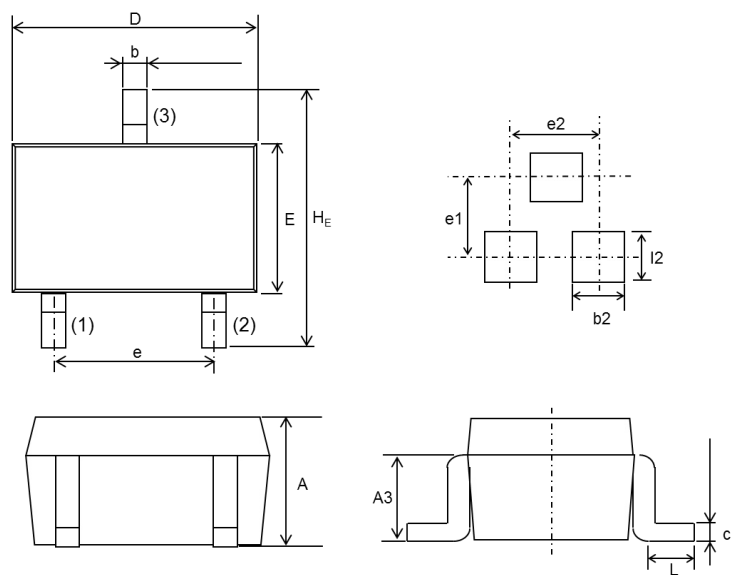
● Characteristic Curves



● Characteristic Curves

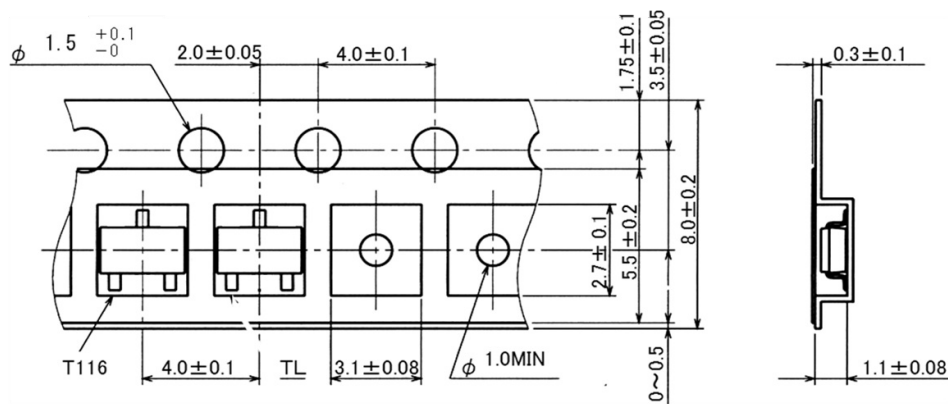


● Dimension (SSD3 SOT-23)



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A	0.85	0.95	1.15	0.033	0.037	0.045
A3	0.35	0.45	0.55	0.014	0.018	0.022
b	0.35	0.40	0.50	0.014	0.016	0.020
c	0.09	0.15	0.25	0.004	0.006	0.010
D	2.70	2.90	3.10	0.106	0.114	0.122
E	1.20	1.30	1.50	0.047	0.051	0.059
H _E	2.20	2.40	2.60	0.087	0.094	0.102
L	0.20	-	-	0.008	-	-
e	1.70	1.90	2.10	0.067	0.075	0.083
l2	1.00	-	-	0.039	-	-
b2	0.80	-	-	0.031	-	-
e1	-	2.10	-	-	0.083	-
e2	-	1.90	-	-	0.075	-

● 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

JAPAN	USA	EU	CHINA
CLASS III	CLASS III	CLASS II b	CLASS III
CLASS IV		CLASS III	

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 ionizer, 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.

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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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