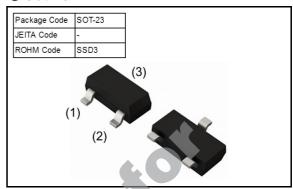


BZX84B11VL

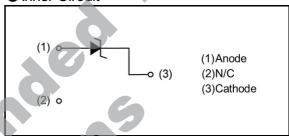
Zener Diode Data sheet

 P_{D} 250 mW

Outline



Feature High reliability Small mold type Inner Circuit



Application

Packaging Specification

T deltaging specification							
Packing	Embossed Tape						
Reel Size(mm)	180						
Taping Width(mm)	8						
Basic Ordering Unit(pcs)	3000						
Taping Code	T116						
Marking	D3U						

Application			Packaging	Specification	n	
Voltage regulation			Packir	ng	Emboss	ed Tape
			Reel Size	(mm)	18	30
			Taping Wid	lth(mm)	3	3
● Structure			Basic Orderin	g Unit(pcs)	30	00
Silicon Epitaxial Planar			Taping C	ode :	T1	16
			Markir	ng	D3	3U
● Absolute Maximum Rating (T _a	= 25°C)					
Parameter	Symbol	Cor	ndition	Limits		Unit
Power dissipation	PD	on Class or	oxy substrate	250		mW
Power dissipation	Un Glass-ep		oxy substrate	2.0		mW/°C
Junction temperature	T _j		-	150		ဇင
Storage temperature	T _{stg}		-	-65 ~ 15	0	°C
	-	•			•	

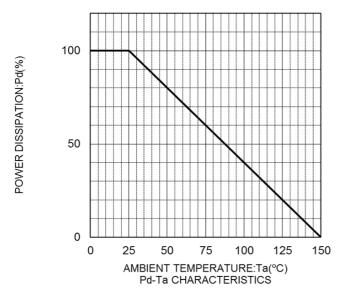
● Characteristic (T_a = 25°C)

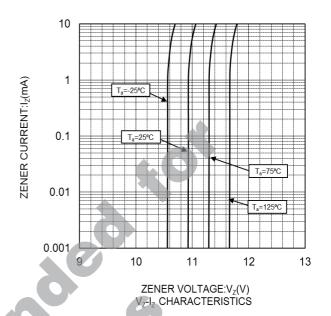
	Symbol										
P/N	Zener	· Voltage:VZ	(V)	Reverse Current: IR(µA)					Temperature Coefficient:γ _z (mV/°c)		
	MIN.	MAX.	$I_{Z}(mA)$	MAX.	$V_{R}(V)$	MAX.	$I_{Z}(mA)$	MIN.	MAX.	l _z (mA)	
BZX84B5V1L	5.00	5.20	5	2	2.0	60	5	-1.5	2.6	5	
BZX84B5V6L	5.49	5.71	5	1	2.0	40	5	-1.0	3.1	5	
BZX84B6V2L	6.08	6.32	5	3	4.0	10	5	0.9	3.8	5	
BZX84B6V8L	6.66	6.94	5	2	4.0	15	5	1.5	4.5	5	
BZX84B7V5L	7.35	7.65	5	1	5.0	15	5	2.2	5.0	5	
BZX84B8V2L	8.04	8.36	5	0.7	5.0	15	5	3.2	6.1	5	
BZX84B9V1L	8.92	9.28	5	0.5	6.0	15	5	3.9	6.9	5	
BZX84B10VL	9.80	10.20	5	0.2	7.0	20	5	5.0	8.0	5	
BZX84B11VL	10.80	11.20	5	0.1	8.0	20	5	5.8	8.8	5	
BZX84B12VL	11.80	12.20	5	0.1	8.0	25	5	6.8	9.8	5	
BZX84B13VL	12.70	13.30	5	0.1	8.0	30	5	7.9	11.0	5	
BZX84B15VL	14.70	15.30	5	0.1	10.0	30	5	9.4	12.6	5	
BZX84B16VL	15.70	16.30	5	0.1	11.0	40	5	11.0	14.3	5	
BZX84B18VL	17.60	18.40	5	0.1	13.0	45	5	12.6	15.8	5	
BZX84B20VL	19.60	20.40	5	0.1	14.0	55	5	14.3	17.3	5	
BZX84B22VL	21.60	22.40	5	0.1	15.0	55	5	15.8	19.3	5	
BZX84B24VL	23.50	24.50	5	0.1	17.0	70	5	17.3	22.6	5	
BZX84B27VL	26.50	27.50	2	0.1	19.0	80	2	19.3	25.8	2	
BZX84B30VL	29.40	30.60	2	0.1	21.0	80	2	22.6	28.5	2	
BZX84B33VL	32.30	33.70	2	0.1	23.0	80	2	25.8	31.1	2	
BZX84B36VL	35.30	36.70	2	0.1	25.0	90	. 2	28.5	34.0	2	

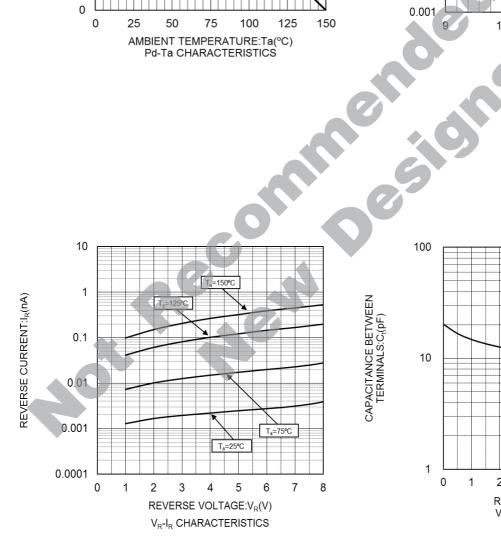
Marking

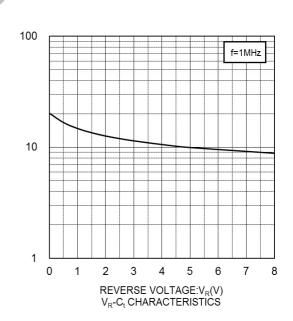
BZX84B33VL	32.30	33.70	2	0.1	23.0	80	2	25.8	31.1	2
BZX84B36VL	35.30	36.70	2	0.1	25.0	90	2	28.5	34.0	2
BZX84B36VL 35.30 36.70 2 0.1 25.0 90 2 28.5 34.0 2 Vz test time is 40ms Marking										
P/N		Mar	king			P/N			Markir	ng
BZX84B5V1L		DX	3L		BZ>	(84B15VL	=		D3X	
BZX84B5V6L	-	Ω	BM		BZ>	(84B16VL	_		D3Y	
BZX84B6V2L	_	Ω	BN		BZ>	(84B18VL	_		D3Z	
BZX84B6V8L	_	DΩ	3P		BZ>	(84B20VL	_		D5A	
BZX84B7V5L	-	D:	3Q		BZ>	(84B22VI	_		D5B	
BZX84B8V2L	_	D:	3R		BZ>	(84B24VI	_		D5C	
BZX84B9V1L	_	D:	3S		BZ>	(84B27VL	_		D5D	
BZX84B10VL	_	Ω	3T		BZ>	(84B30VL	_		D5E	
BZX84B11VL	_	D:	3U		BZX	(84B33VL	_		D5F	
BZX84B12VL	BZX84B12VL D3V BZX84B36VL D5G									
BZX84B13VL	_	D3	3W							

Characteristic Curves



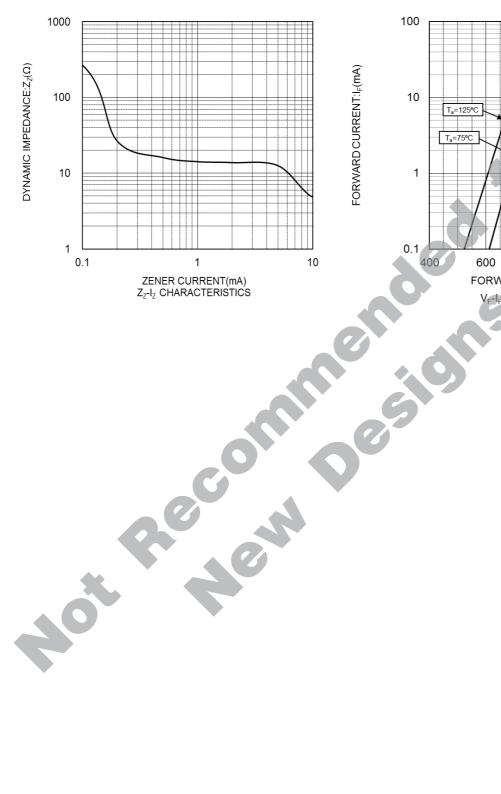


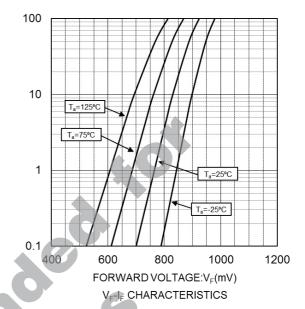




CAPACITANCE BETWEEN TERMINALS:C_t(pF)

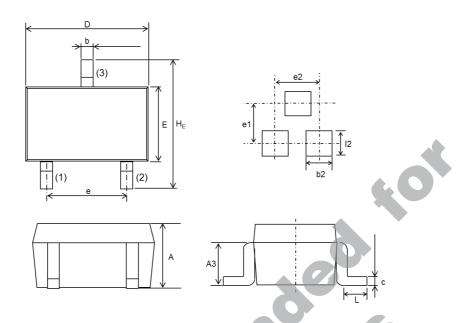
Characteristic Curves





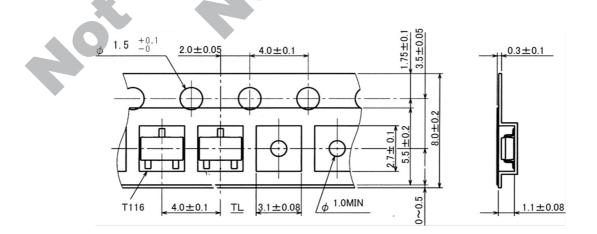
-ORWARD CURRENT:IF(mA)

● Dimension (SSD3 SOT-23)



DIM		Milimeters		Inches			
DIIVI	Min.	Average	Max.	Min.	Average	Max.	
Α	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	
С	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	
HE	2.20	2.40	2.60	0.087	0.094	0.102	
L	0.20		-	0.008		-	
е	1.70	1.90	2.10	0.067	0.075	0.083	
12	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. Our Products are designed and manufactured for application in ordinary electronic equipment (such as AV equipment, OA equipment, telecommunication equipment, home electronic appliances, amusement equipment, etc.). If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment (Note 1), transport equipment, traffic equipment, aircraft/spacecraft, nuclear power controllers, fuel controllers, car equipment including car accessories, safety devices, 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
CLASSⅢ	CLASSIII	CLASS II b	CLASSⅢ
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 designed and manufactured for use under standard conditions and not 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.

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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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Notice-PGA-E Rev.004

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