

Parameter	Symbol	Limits	Unit
Power dissipation	PD	1000	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 ~ 150	°C

KDZV Series

● Characteristic (T_a = 25°C)

	Symbol				
P/N	Zener Voltage:VZ(V)			Reverse Current:I _R (µA)	
	MIN.	MAX.	l _z (mA)	MAX.	V _R (V)
KDZV 2.0B	2.000	2.240	40	200	0.5
KDZV 2.2B	2.200	2.450	40	200	0.7
KDZV 2.4B	2.400	2.700	40	200	1.0
KDZV 2.7B	2.700	3.100	40	200	1.0
KDZV 3.0B	3.000	3.400	40	100	1.0
KDZV 3.3B	3.300	3.700	40	80	1.0
KDZV 3.6B	3.600	4.000	40	60	1.0
KDZV 3.9B	3.900	4.400	40	40	1.0
KDZV 4.3B	4.300	4.800	40	20	1.0
KDZV 4.7B	4.700	5.200	40	20	1.0
KDZV 5.1B	5.100	5.700	40	20	1.0
KDZV 5.6B	5.600	6.300	40	20	1.5
KDZV 6.2B	6.200	7.000	40	20	3.0
KDZV 6.8B	6.800	7.700	40	20	3.5
KDZV 7.5B	7.500	8.400	40	20	4.0
KDZV 8.2B	8.200	9.300	40	20	5.0
KDZV 9.1B	9.100	10.200	40	20	6.0
KDZV 10B	10.000	11.200	40	10	7.0
KDZV 11B	11.000	12.300	20	10	8.0
KDZV 12B	12.000	13.500	20	10	9.0
KDZV 13B	13.300	15.000	20	10	10.0
KDZV 15B	14.700	16.500	20	10	11.0
KDZV 16B	16.200	18.300	20	10	12.0
KDZV 18B	18.000	20.300	20	10	13.0
KDZV 20B	20.000	22.400	20	10	15.0
KDZV 22B	22.000	24.500	10	10	17.0
KDZV 24B	24.000	27.600	10	10	19.0
KDZV 27B	27.000	30.800	10	10	21.0
KDZV 30B	30.000	34.000	10	10	23.0
KDZV 33B	33.000	37.000	10	10	25.0
KDZV 36B	36.000	40.000	10	10	27.0

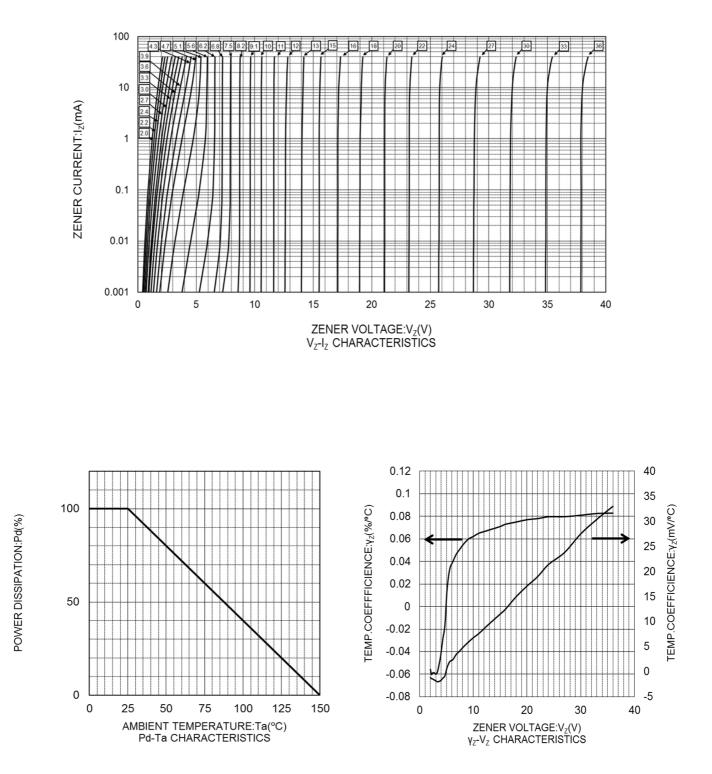
Vz test time is 40ms.

Marking

P/N	Marking	P/N	Marking
KDZV 2.0B	AB	KDZV 9.1B	SB
KDZV 2.2B	BB	KDZV 10B	TB
KDZV 2.4B	CB	KDZV 11B	UB
KDZV 2.7B	DB	KDZV 12B	VB
KDZV 3.0B	B	KDZV 13B	WB
KDZV 3.3B	FB	KDZV 15B	XB
KDZV 3.6B	GB	KDZV 16B	YB
KDZV 3.9B	HB	KDZV 18B	ZB
KDZV 4.3B	JB	KDZV 20B	AD
KDZV 4.7B	KB	KDZV 22B	BD
KDZV 5.1B	LB	KDZV 24B	CD
KDZV 5.6B	MB	KDZV 27B	DD
KDZV 6.2B	NB	KDZV 30B	Ð
KDZV 6.8B	PB	KDZV 33B	FD
KDZV 7.5B	QB	KDZV 36B	GD
KDZV 8.2B	RB		

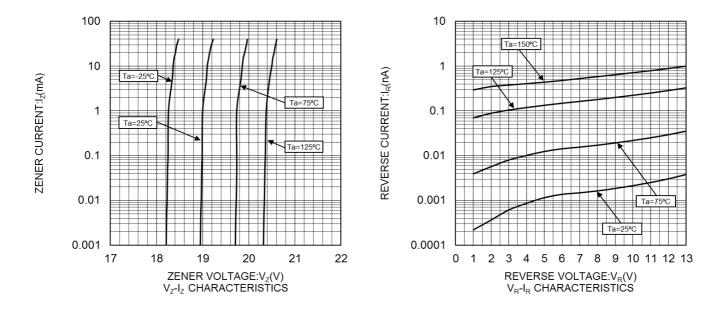


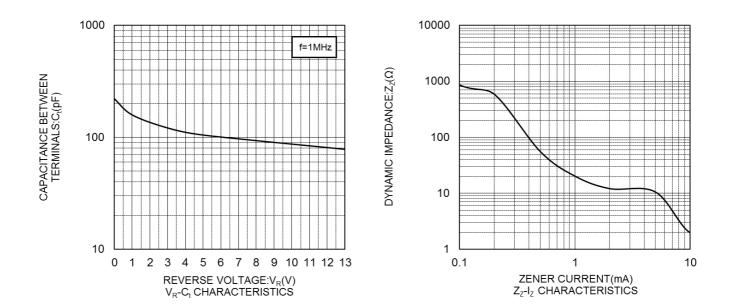
Characteristic Curves





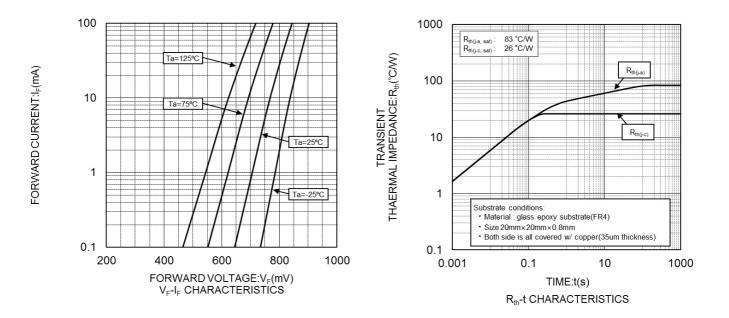
Characteristic Curves





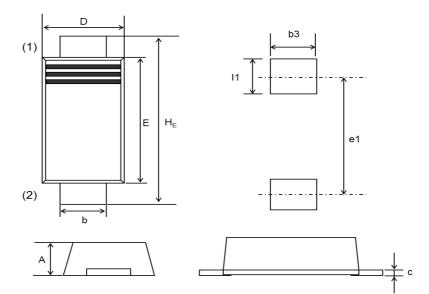


Characteristic Curves





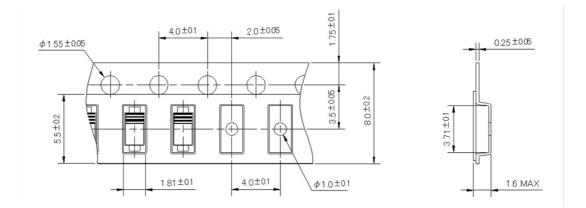
Dimension (PMDU SOD-123 SC-109B)



DIM	Milimeters		Inches			
DIVI	Min.	Average	Max.	Min.	Average	Max.
A	0.70	0.80	0.90	0.028	0.031	0.035
b	0.80	0.90	1.00	0.031	0.035	0.039
с	0.05	0.10	0.20	0.002	0.004	0.008
D	1.50	1.60	1.70	0.059	0.063	0.067
E	2.50	2.60	2.70	0.098	0.102	0.106
HE	3.38	3.50	3.62	0.133	0.138	0.143
11	-	0.85	-	-	0.033	-
b3	-	1.20	-	-	0.047	-
e1	-	3.05	-	-	0.120	-

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

Taping (Unit:mm)





Notice

Precaution on using ROHM Products

1. Our Products are designed and manufactured for application in ordinary electronic equipments (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

JÁPAN	USA	EU	CHINA
CLASSⅢ	CLASSII	CLASS II b	
CLASSⅣ	CLASSII	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 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 (even if you use no-clean type fluxes, cleaning residue of flux is recommended); 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.

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KDZV18B - Web Page

Distribution Inventory

Part Number	KDZV18B
Package	PMDU
Unit Quantity	3000
Minimum Package Quantity	3000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Zener Diodes category:

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Other Similar products are found below :

 RKZ13B2KG#P1
 DL5234B
 IN4682
 IN4693
 IN4732A
 IN4736A
 IN4750A
 IN4759ARL
 IN5241B
 IN5365B
 IN5369B
 IN747A

 1N964B
 1N966B
 1N968B
 1N972B
 JANS1N4974US
 1N4692
 1N4702
 1N4704
 1N4711
 1N4745ARL
 1N4752ARL
 1N4760ARL

 1N5221B
 1N5242BTR
 1N5350B
 1N5352B
 1N961BRR1
 1N964BRL
 RKZ5.1BKU#P6
 3SMAJ5946B-TP
 3SMAJ5950B-TP

 MMSZ5230BQ-13-F
 MMSZ5232BQ-13-F
 BZX84C7V5
 3SMAJ5945B-TP
 3SMAJ5947B-TP
 3SMBJ5941B-TP
 DZ2S240M0L
 SMAZ27

 TP
 ZMM5224B-7
 RD16UM-T1-A
 RD39S-T1-A
 RD10S-T1-A
 CDZT2R5.6B
 1N4762A
 G
 Z1SMA18
 JANTX1N4553B