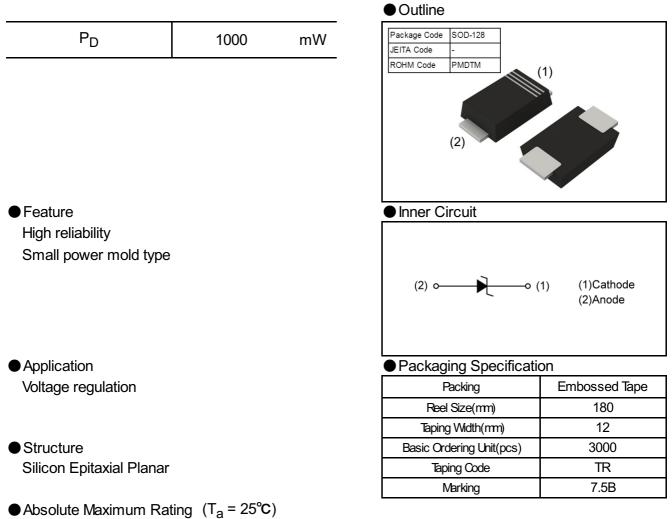


Data sheet



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

PDZV Series

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

	Symbol						
P/N	Zener Voltage:V _Z (V)			Dynamic Impedance: $Z_Z(\Omega)$		Reverse Current:I _R (µA)	
	MIN.	MAX.	l _z (mA)	MAX.	l _z (mA)	MAX.	V _R (V)
PDZV 2.0B	2.000	2.240	40	25	40	200	0.5
PDZV 2.2B	2.200	2.450	40	20	40	200	0.7
PDZV 2.4B	2.400	2.700	40	15	40	200	1.0
PDZV 2.7B	2.700	3.100	40	15	40	200	1.0
PDZV 3.0B	3.000	3.400	40	15	40	100	1.0
PDZV 3.3B	3.300	3.700	40	15	40	80	1.0
PDZV 3.6B	3.600	4.000	40	15	40	60	1.0
PDZV 3.9B	3.900	4.400	40	15	40	40	1.0
PDZV 4.3B	4.300	4.800	40	15	40	20	1.0
PDZV 4.7B	4.700	5.200	40	10	40	20	1.0
PDZV 5.1B	5.100	5.700	40	8	40	20	1.0
PDZV 5.6B	5.600	6.300	40	8	40	20	1.5
PDZV 6.2B	6.200	7.000	40	6	40	20	3.0
PDZV 6.8B	6.800	7.700	40	6	40	20	3.5
PDZV 7.5B	7.500	8.400	40	4	40	20	4.0
PDZV 8.2B	8.200	9.300	40	4	40	20	5.0
PDZV 9.1B	9.100	10.200	40	6	40	20	6.0
PDZV 10B	10.000	11.200	40	6	40	10	7.0
PDZV 11B	11.000	12.300	20	8	20	10	8.0
PDZV 12B	12.000	13.500	20	8	20	10	9.0
PDZV 13B	13.300	15.000	20	10	20	10	10.0
PDZV 15B	14.700	16.500	20	10	20	10	11.0
PDZV 16B	16.200	18.300	20	12	20	10	12.0
PDZV 18B	18.000	20.300	20	12	20	10	13.0
PDZV 20B	20.000	22.400	20	14	20	10	15.0
PDZV 22B	22.000	24.500	10	14	10	10	17.0
PDZV 24B	24.000	27.600	10	16	10	10	19.0
PDZV 27B	27.000	30.800	10	16	10	10	21.0
PDZV 30B	30.000	34.000	10	18	10	10	23.0
PDZV 33B	33.000	37.000	10	18	10	10	25.0
PDZV 36B	36.000	40.000	10	20	10	10	27.0

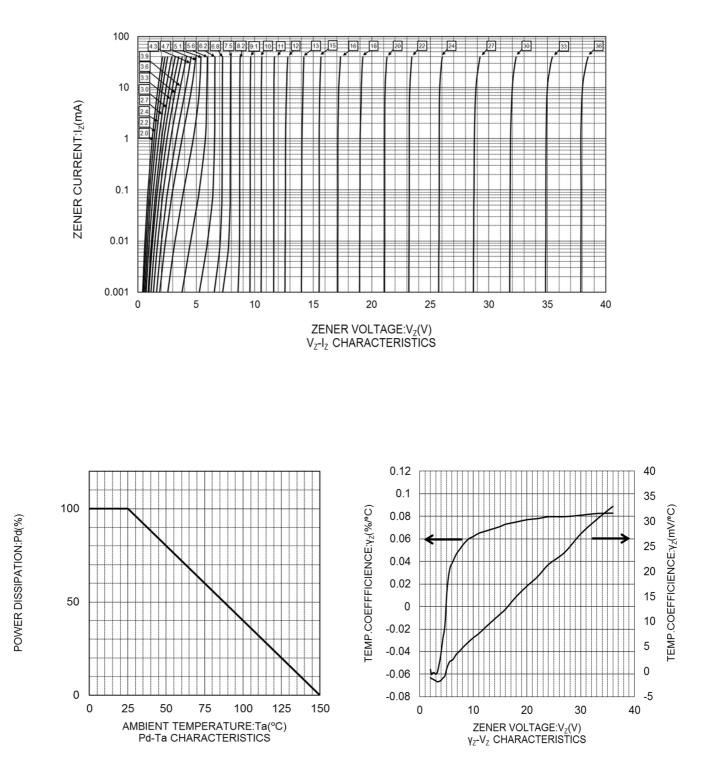
Vz test time is 40ms.

Marking

P/N	Marking	P/N	Marking
PDZV 2.0B	2.0B	PDZV 9.1B	9.1B
PDZV 2.2B	2.2B	PDZV 10B	10B
PDZV 2.4B	2.4B	PDZV 11B	11B
PDZV 2.7B	2.7B	PDZV 12B	12B
PDZV 3.0B	3.0B	PDZV 13B	13B
PDZV 3.3B	3.3B	PDZV 15B	15B
PDZV 3.6B	3.6B	PDZV 16B	16B
PDZV 3.9B	3.9B	PDZV 18B	18B
PDZV 4.3B	4.3B	PDZV 20B	20B
PDZV 4.7B	4.7B	PDZV 22B	22B
PDZV 5.1B	5.1B	PDZV 24B	24B
PDZV 5.6B	5.6B	PDZV 27B	27B
PDZV 6.2B	6.2B	PDZV 30B	30B
PDZV 6.8B	6.8B	PDZV 33B	33B
PDZV 7.5B	7.5B	PDZV 36B	36B
PDZV 8.2B	8.2B		

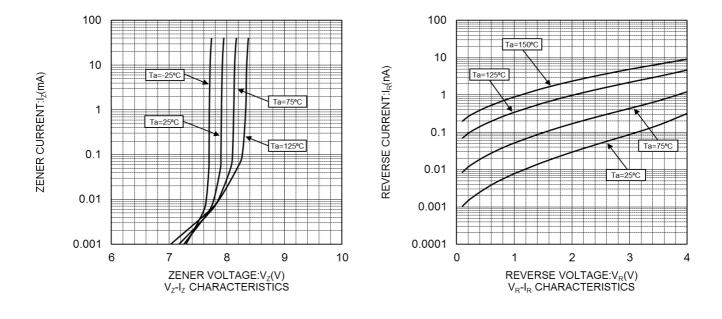


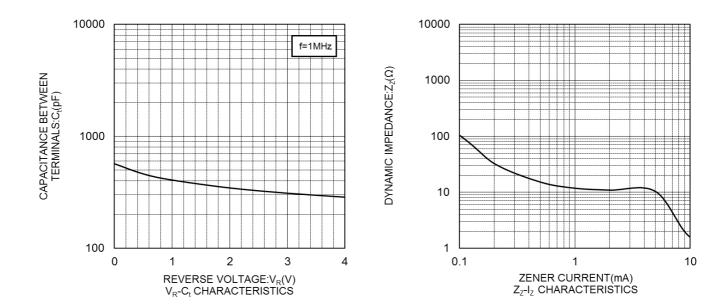
Characteristic Curves





Characteristic Curves

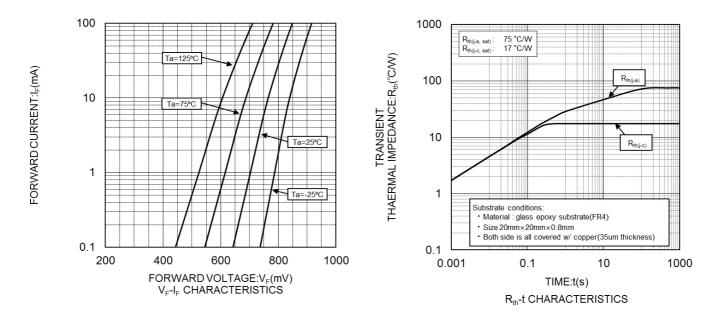




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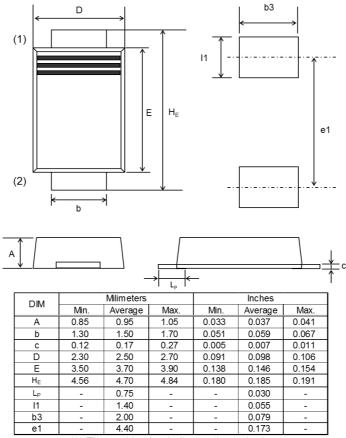


Characteristic Curves



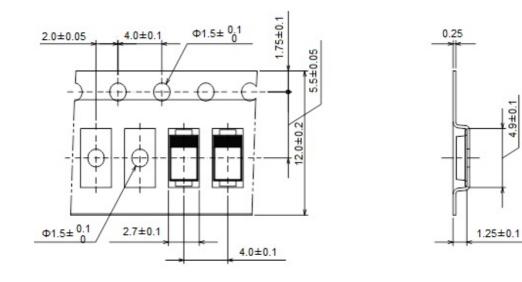


• Dimension (PMDTM SOD-128)



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

Taping (Unit:mm)



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	JAPAN	USA	EU	CHINA	
ſ	CLASSⅢ		CLASS II b		
	CLASSⅣ	CLASSⅢ	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:
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 - [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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- 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.



PDZV7.5B - Web Page

Distribution Inventory

Part Number	PDZV7.5B
Package	PMDTM
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:

Click to view products by ROHM manufacturer:

Other Similar products are found below :

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 EDZTE6113B
 1N4682
 1N4691
 1N4693
 1N4732A
 1N4733A-TR
 1N4736A
 1N4750A
 1N4759ARL
 1N5241B

 1N5365B
 1N5369B
 1N747A
 1N959B
 1N964B
 1N966B
 1N968B
 1N972B
 NTE5116A
 NTE5121A
 NTE5147A
 NTE5152A

 NTE5155A
 NTE5164A
 JANS1N4974US
 1N4692
 1N4702
 1N4704
 1N4711
 1N4737A
 1N4745ARL
 1N4752A

 1N4752ARL
 1N5221B
 1N5236B
 1N5241BTR
 1N5242BTR
 1N5350B
 1N5352B
 1N961BRR1
 1N964BRL
 RKZ5.1BKU#P6

 3SMAJ5950B-TP
 3SMBJ5925B-TP
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