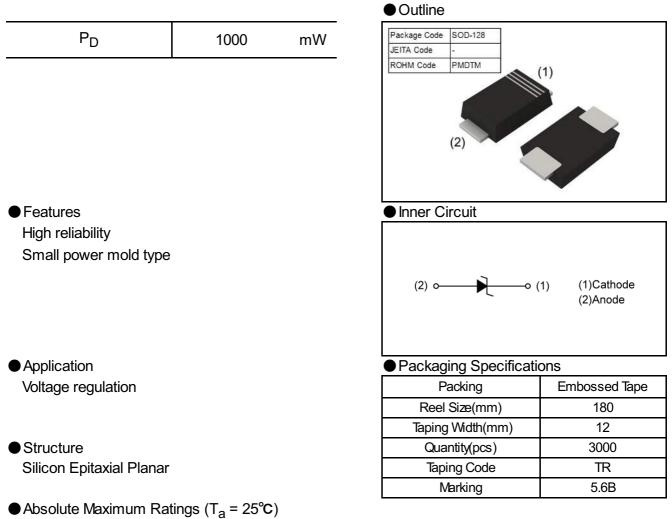


Data sheet



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

PDZV Series

Data sheet

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

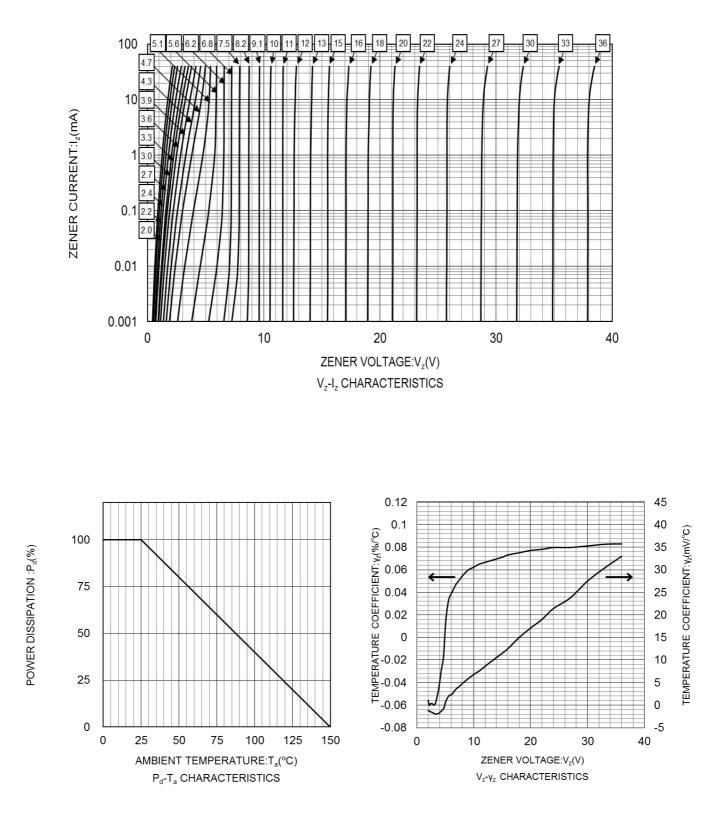
	Symbol						
V _Z Rank(V)	Zene	r Voltage:V _Z	(V) ⁽¹⁾	Dynamic Impedance:Z _Z (Ω)		Reverse Current:I _R (µA)	
	MIN.	MAX	I _Z (mA)	MAX	I _Z (mA)	MAX	V _R (V)
2.0	2.000	2.240	40	25	40	200	0.5
2.2	2.200	2.450	40	20	40	200	0.7
2.4	2.400	2.700	40	15	40	200	1.0
2.7	2.700	3.100	40	15	40	200	1.0
3.0	3.000	3.400	40	15	40	100	1.0
3.3	3.300	3.700	40	15	40	80	1.0
3.6	3.600	4.000	40	15	40	60	1.0
3.9	3.900	4.400	40	15	40	40	1.0
4.3	4.300	4.800	40	15	40	20	1.0
4.7	4.700	5.200	40	10	40	20	1.0
5.1	5.100	5.700	40	8	40	20	1.0
5.6	5.600	6.300	40	8	40	20	1.5
6.2	6.200	7.000	40	6	40	20	3.0
6.8	6.800	7.700	40	6	40	20	3.5
7.5	7.500	8.400	40	4	40	20	4.0
8.2	8.200	9.300	40	4	40	20	5.0
9.1	9.100	10.200	40	6	40	20	6.0
10	10.000	11.200	40	6	40	10	7.0
11	11.000	12.300	20	8	20	10	8.0
12	12.000	13.500	20	8	20	10	9.0
13	13.300	15.000	20	10	20	10	10.0
15	14.700	16.500	20	10	20	10	11.0
16	16.200	18.300	20	12	20	10	12.0
18	18.000	20.300	20	12	20	10	13.0
20	20.000	22.400	20	14	20	10	15.0
22	22.000	24.500	10	14	10	10	17.0
24	24.000	27.600	10	16	10	10	19.0
27	27.000	30.800	10	16	10	10	21.0
30	30.000	34.000	10	18	10	10	23.0
33	33.000	37.000	10	18	10	10	25.0
36	36.000	40.000	10	20	10	10	27.0

Note(1) V_Z test time is 40ms.

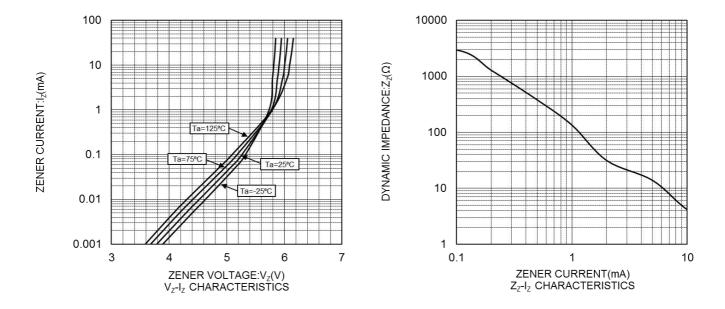
Markings

V _Z Rank(V)	Marking	V _Z Rank(V)	Marking	
2.0	2.0B	9.1	9.1B	
2.2	2.2B	10	10B	
2.4	2.4B	11	11B	
2.7	2.7B	12	12B	
3.0	3.0B	13	13B	
3.3	3.3B	15	15B	
3.6	3.6B	16	16B	
3.9	3.9B	18	18B	
4.3	4.3B	20	20B	
4.7	4.7B	22	22B	
5.1	5.1B	24	24B	
5.6	5.6B	27	27B	
6.2	6.2B	30	30B	
6.8	6.8B	33	33B	
7.5	7.5B	36	36B	
8.2	8.2B			

Characteristic Curves

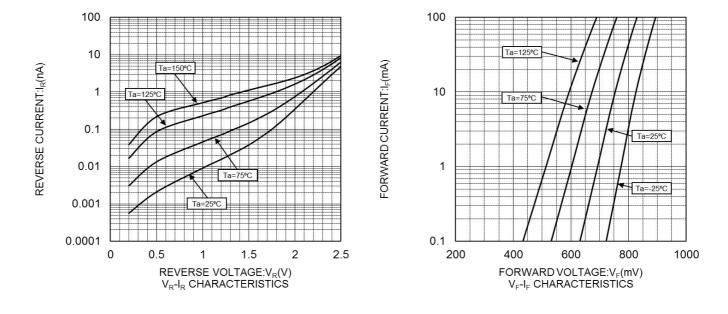


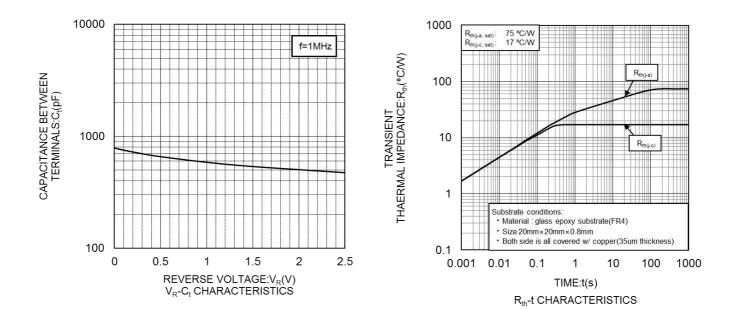
Characteristic Curves





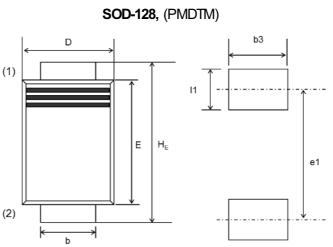
Characteristic Curves

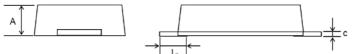






Dimension

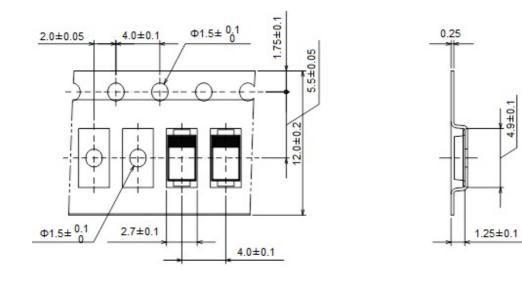




L _p						
		Milimeters		Inches		
DIN	Min.	Average	Max.	Min.	Average	Max.
A	0.85	0.95	1.05	0.033	0.037	0.041
b	1.30	1.50	1.70	0.051	0.059	0.067
С	0.12	0.17	0.27	0.005	0.007	0.011
D	2.30	2.50	2.70	0.091	0.098	0.106
E	3.50	3.70	3.90	0.138	0.146	0.154
HE	4.56	4.70	4.84	0.180	0.185	0.191
LP	-	0.75	-	-	0.030	-
11	-	1.40	-	-	0.055	-
b3	-	2.00	-	-	0.079	-
e1	-	4.40	-	-	0.173	-

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

•Taping (Unit:mm)



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(Note1) Medical Equipment Classification of the S	pecific Applications
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JAPAN	USA	EU	CHINA
CLASSⅢ	CLASSⅢ	CLASS II b	CLASSII
CLASSⅣ	CLASSIII	CLASSⅢ	CLASSI

- 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 (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.

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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