

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

PTZ Series

Data sheet

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

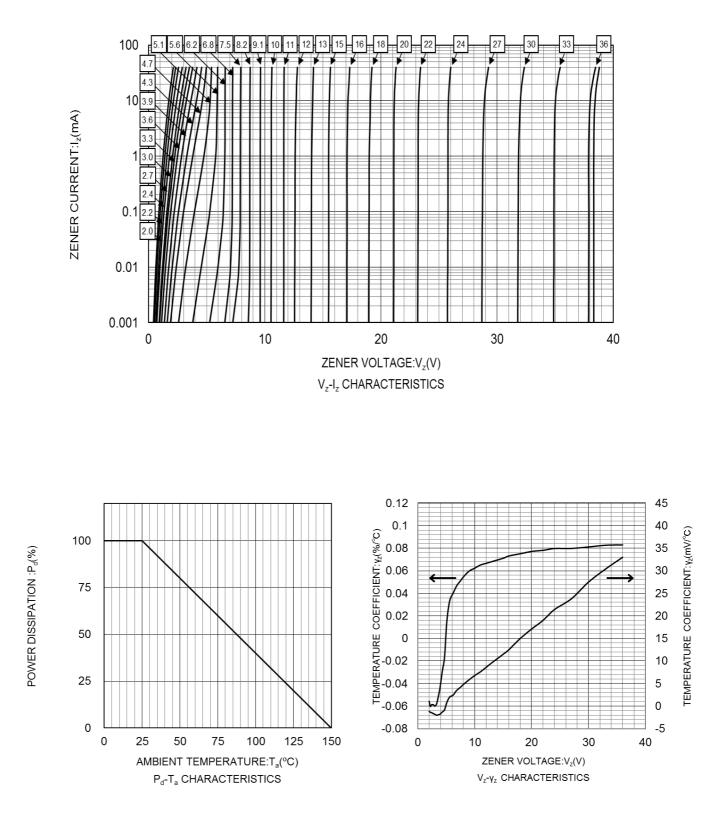
| | Symbol | | | | | | |
|------------------------|--------|--------------------------|---------------------|----------------------------------|---------------------|-------------------------------------|--------------------|
| V _Z Rank(V) | Zene | r Voltage:V _Z | (V) ⁽¹⁾ | Dynamic Impedance: $Z_Z(\Omega)$ | | 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

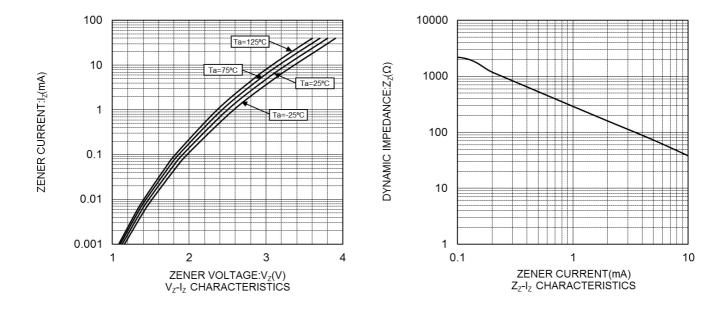
| V _Z Rank(V) | Marking | V _Z Rank(V) | Marking | |
|------------------------|---------|------------------------|---------|--|
| 2.0 | 2.0B | 9.1 | 9.1B | |
| 2.2 | 2.2B | 10 | 10B | |
| 2.4 | 2.4B | 11 | 11B | |
| 2.7 | 2.7B | 12 | 12B | |
| 3.0 | 3.0B | 13 | 13B | |
| 3.3 | 3.3B | 15 | 15B | |
| 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



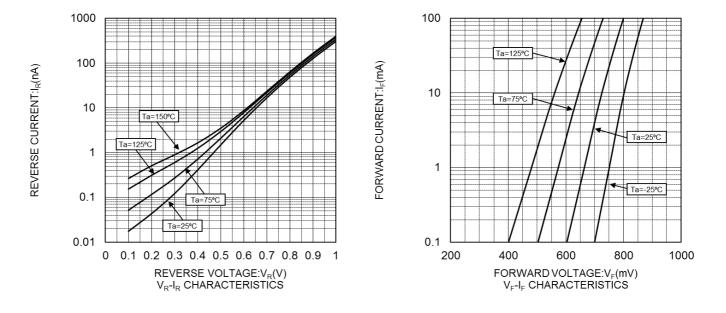


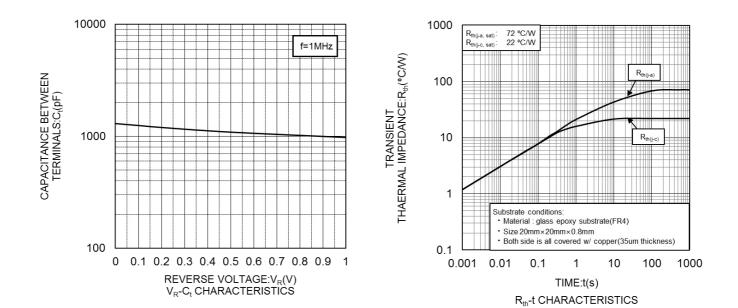
Characteristic Curves





Characteristic Curves

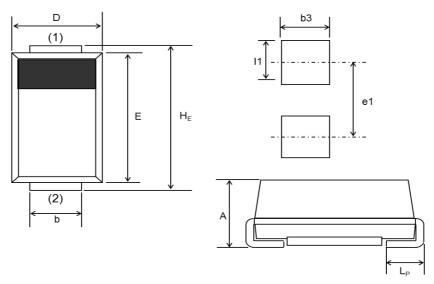






Dimension

DO-214AC(SMA), (PMDS)

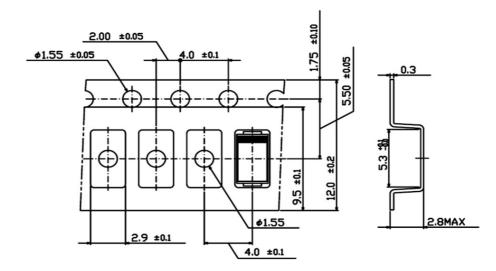


| DIM | | Milimeters | | Inches | | |
|----------------|------|------------|------|--------|---------|-------|
| | Min. | Average | Max. | Min. | Average | Max. |
| А | 1.80 | 2.00 | 2.20 | 0.071 | 0.079 | 0.087 |
| b | 1.30 | 1.50 | 1.70 | 0.051 | 0.059 | 0.067 |
| D | 2.40 | 2.60 | 2.80 | 0.094 | 0.102 | 0.110 |
| E | 4.30 | 4.50 | 4.70 | 0.169 | 0.177 | 0.185 |
| Η _E | 4.70 | 5.00 | 5.30 | 0.185 | 0.197 | 0.209 |
| Lp | 0.90 | 1.20 | 1.50 | 0.035 | 0.047 | 0.059 |
| 11 | - | 2.00 | - | - | 0.079 | - |
| b3 | - | 2.00 | - | - | 0.079 | - |
| e1 | - | 4.20 | - | - | 0.165 | - |

(1) The marking bar indicates the cathode.

(2) The direction indicates the anode.

•Taping (Unit:mm)





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| JAPAN | USA | EU | CHINA | |
|--------|--------|------------|---------|--|
| CLASSⅢ | | CLASS II b | | |
| CLASSⅣ | CLASSⅢ | CLASSⅢ | CLASSII | |

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 - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
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 - [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
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- 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.
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- 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

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- 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.
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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).

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 - [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.

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