

## ■ For Overcurrent Protection

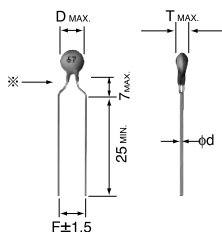


Fig. 1 (Formed Lead Type : Y)

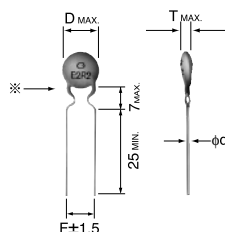


Fig. 2 (Formed Lead Type : U)

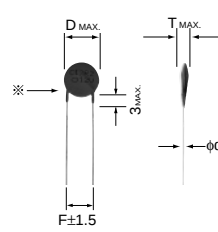


Fig. 3 (Formed Straight)

※ : An internal element may be exposed. However, this would not affect the function of products.

### ●12V Class

| Type No.    | Initial Resistance<br>(at 25°C) | Max. Operating Voltage | Max. Inrush Current | Current Characteristic |                          | Dimensions (mm) |     |     |     | Fig. |
|-------------|---------------------------------|------------------------|---------------------|------------------------|--------------------------|-----------------|-----|-----|-----|------|
|             |                                 |                        |                     | Normal Current (60°C)  | Limiting Current (-10°C) | D               | T   | F   | d   |      |
| ZPC11CE2R2A | 2.2Ω ±20%                       | 16V                    | 2.1A                | 300mA or less          | 760mA or more            | 5.5             | 3.0 | 5.0 | 0.5 | 1    |
| ZPC12CE1R8A | 1.8Ω ±20%                       |                        | 2.4A                | 330mA or less          | 830mA or more            | 6.3             |     |     | 0.6 | 2    |
| ZPC13CE1R5B | 1.5Ω ±20%                       |                        | 3.0A                | 410mA or less          | 1030mA or more           | 7.0             |     |     |     |      |
| ZPC15CE1R0B | 1.0Ω ±20%                       |                        | 3.6A                | 520mA or less          | 1300mA or more           | 8.0             |     |     |     |      |
| ZPC17CE0R8B | 0.8Ω ±20%                       |                        | 4.1A                | 600mA or less          | 1490mA or more           | 8.8             |     |     |     |      |
| ZPC1CC0R5D  | 0.5Ω ±20%                       |                        | 5.0A                | 730mA or less          | 1830mA or more           | 10.6            |     |     |     |      |
| ZPC1MCC0R3B | 0.3Ω ±20%                       |                        | 7.0A                | 1030mA or less         | 2580mA or more           | 14.5            |     |     |     |      |

### ●25V Class

| Type No.    | Initial Resistance<br>(at 25°C) | Max. Operating Voltage | Max. Inrush Current | Current Characteristic |                          | Dimensions (mm) |     |     |     | Fig. |
|-------------|---------------------------------|------------------------|---------------------|------------------------|--------------------------|-----------------|-----|-----|-----|------|
|             |                                 |                        |                     | Normal Current (60°C)  | Limiting Current (-10°C) | D               | T   | F   | d   |      |
| ZPC25CE8R2A | 8.2Ω ±20%                       | 35V                    | 1.3A                | 120mA or less          | 310mA or more            | 8.0             | 3.5 | 5.0 | 0.5 | 3    |
| ZPC29CE6R8A | 6.8Ω ±20%                       |                        | 1.4A                | 200mA or less          | 510mA or more            | 9.7             |     |     | 0.6 |      |
| ZPC29CE4R7A | 4.7Ω ±20%                       |                        | 1.6A                | 230mA or less          | 570mA or more            | 9.7             |     |     |     |      |
| ZPC2DCE4R7A | 4.7Ω ±20%                       |                        | 1.8A                | 270mA or less          | 680mA or more            | 11.4            |     |     |     |      |
| ZPC2DCE3R9A | 3.9Ω ±20%                       |                        | 1.9A                | 280mA or less          | 700mA or more            | 11.4            |     |     |     |      |
| ZPC2ECE3R9A | 3.9Ω ±20%                       |                        | 2.1A                | 300mA or less          | 760mA or more            | 11.9            |     |     |     |      |
| ZPC2ECE3R3A | 3.3Ω ±20%                       |                        | 2.2A                | 310mA or less          | 790mA or more            | 11.9            |     |     |     |      |
| ZPC2LCE2R7A | 2.7Ω ±20%                       |                        | 2.5A                | 370mA or less          | 930mA or more            | 14.3            |     |     |     |      |
| ZPC2LCE2R2A | 2.2Ω ±20%                       |                        | 2.8A                | 400mA or less          | 1020mA or more           | 14.3            |     |     |     |      |
| ZPC2RCE2R2A | 2.2Ω ±20%                       |                        | 3.1A                | 450mA or less          | 1150mA or more           | 15.9            |     |     |     |      |
| ZPC2RCE1R8A | 1.8Ω ±20%                       |                        | 3.4A                | 500mA or less          | 1250mA or more           | 15.9            |     |     |     |      |

### ●50V Class

| Type No.    |  | Initial Resistance<br>(at 25°C) | Max. Operating Voltage | Max. Inrush Current | Current Characteristic |                          | Dimensions (mm) |     |      |     | Fig. |
|-------------|--|---------------------------------|------------------------|---------------------|------------------------|--------------------------|-----------------|-----|------|-----|------|
|             |  |                                 |                        |                     | Normal Current (60°C)  | Limiting Current (-10°C) | D               | T   | F    | d   |      |
| ZPC32CE240D |  | 24Ω ±20%                        | 60V                    | 0.7A                | 100mA or less          | 250mA or more            | 6.5             | 4.5 | 5.0  | 0.5 | 1    |
| ZPC35CE150A |  | 15Ω ±20%                        |                        | 0.9A                | 130mA or less          | 320mA or more            | 8.0             |     |      |     | 3    |
| ZPC3ACE8R2C |  | 8.2Ω ±20%                       |                        | 1.3A                | 190mA or less          | 480mA or more            | 10.1            |     |      | 0.6 | 2    |
| ZPC3DCE6R2C |  | 6.2Ω ±20%                       |                        | 1.5A                | 220mA or less          | 560mA or more            | 11.4            |     | 10.0 |     | 3    |
| ZPC3HCE4R7A |  | 4.7Ω ±20%                       |                        | 1.9A                | 270mA or less          | 690mA or more            | 13.0            |     |      |     |      |
| ZPC3MCE3R6A |  | 3.6Ω ±20%                       |                        | 2.2A                | 310mA or less          | 790mA or more            | 14.7            |     |      |     |      |
| ZPC3RCE3R0A |  | 3.0Ω ±20%                       |                        | 2.5A                | 370mA or less          | 920mA or more            | 15.9            |     |      |     |      |

### ●100V,120V,220V Class

| Type No.    | Initial Resistance<br>(at 25°C) | Max. Operating Voltage | Max. Inrush Current | Current Characteristic |                          | Dimensions (mm) |     |      |     | Fig. |   |  |
|-------------|---------------------------------|------------------------|---------------------|------------------------|--------------------------|-----------------|-----|------|-----|------|---|--|
|             |                                 |                        |                     | Normal Current (60°C)  | Limiting Current (-10°C) | D               | T   | F    | d   |      |   |  |
| ZPC42CE560A | 56Ω ±20%                        | 140V                   | 0.5A                | 65mA or less           | 160mA or more            | 7.0             | 6.0 | 5.0  | 0.5 | 3    |   |  |
| ZPC45CE300B | 30Ω ±20%                        |                        | 0.7A                | 100mA or less          | 250mA or more            | 8.7             |     |      |     | 0.6  | 2 |  |
| ZPC49CE220A | 22Ω ±20%                        |                        | 1.0A                | 130mA or less          | 340mA or more            | 10.4            |     |      | 3   |      |   |  |
| ZPC4CCE150A | 15Ω ±20%                        |                        | 1.1A                | 160mA or less          | 410mA or more            | 11.7            |     | 10.0 |     |      |   |  |
| ZPC4MCE100A | 10Ω ±20%                        |                        | 1.5A                | 210mA or less          | 540mA or more            | 15.3            |     |      |     |      |   |  |
| ZPC4PCE6R8A | 6.8Ω ±20%                       |                        | 1.8A                | 260mA or less          | 660mA or more            | 16.2            |     |      |     |      |   |  |
| ZPC4RCE5R0A | 5Ω ±20%                         | 120V                   | 3.5A                | 290mA or less          | 730mA or more            | 16.8            |     | 5.0  |     | 0.65 |   |  |
| ZPC59CE390A | 39Ω ±20%                        | 265V                   | 0.8A                | 100mA or less          | 250mA or more            | 10.0            |     |      |     | 0.6  |   |  |
| ZPC5JCE270A | 27Ω ±20%                        |                        | 1.2A                | 140mA or less          | 350mA or more            | 14.0            |     | 10.0 |     |      |   |  |

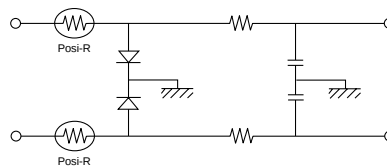
●Other current values are also available upon request.

## ■ For Overcurrent Protection in Telecommunications Equipment.

### ■ Features

1. This type responds quickly as having low heat capacity.
2. Noise shall not be generated as this is a non-contact type.
3. Once "Posi-R" is operated, it keeps protecting unless switch is turned off.
4. "Posi-R" returns to the original resistance level by turning off the switch and can be used repeatedly, after abnormal conditions are removed.  
(There is no need to exchange.)

### ■ Examples of applications



| Type No.    | Initial Resistance<br>(at 25°C) | Max.<br>Operating<br>Voltage | Max. Inrush<br>Current | Current Characteristic |                          | Dimensions (mm) |     |      |      | Fig. |
|-------------|---------------------------------|------------------------------|------------------------|------------------------|--------------------------|-----------------|-----|------|------|------|
|             |                                 |                              |                        | Normal Current (60°C)  | Limiting Current (–10°C) | D               | T   | F    | d    |      |
| ZPC2CBX1R0B | 1Ω ±20%                         | 33V                          | 2.4A                   | 290mA-p or less        | 900mA-p or more          | 11.5            | 3.5 | 5.0  | 0.5  | 2    |
| ZPC47BX100B | 10Ω ±20%                        | 56V                          | 1.0A                   | 100mA-p or less        | 330mA-p or more          | 9.0             | 5.0 |      | 0.6  | 1    |
| ZPC4RCE5R0A | 5Ω ±20%                         | 120V                         | 3.5A                   | 290mA-p or less        | 730mA-p or more          | 16.8            | 6.0 | 10.0 | 0.65 | 3    |
| ZPC4MCE100A | 10Ω ±20%                        | 140V                         | 1.5A                   | 210mA-p or less        | 540mA-p or more          | 15.3            |     |      | 0.6  |      |
| ZPC52CE121A | 120Ω ±20%                       | 265V                         | 0.3A                   | 40mA-p or less         | 100mA-p or more          | 6.5             | 5.0 | 5.0  | 0.5  | 1    |



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Электрон  
Связь**

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**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331