

**230 V**

**Applications**

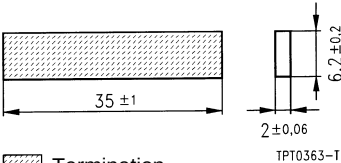
- Self-regulating heating element

**Features**

- Thermistor rectangle with aluminum metallization on front surfaces
- No migration effects
- Suitable for clamp-contacting
- Curvature < 0,05 mm

**Options**

Other dimensions and electrical parameters available upon request



Termination

Dimensions (mm)

|                                         |                 |            |    |
|-----------------------------------------|-----------------|------------|----|
| Max. operating voltage                  | $V_{\max}$      | 265        | V  |
| Rated voltage                           | $V_N$           | 230        | V  |
| Operating temperature range ( $V = 0$ ) | $T_{\text{op}}$ | – 40/+ 200 | °C |
| ( $V = V_N$ )                           | $T_{\text{op}}$ | 0/60       | °C |
| Resistance tolerance                    | $\Delta R$      | ± 50 %     |    |

| Type                | $V_D$<br>V | $T_{\text{Ref}}$<br>°C | $R_{\min}$<br>( $V = V_N$ )<br>Ω | $T_{\text{surf}}^{2)}$<br>( $V = V_N$ )<br>°C | $R_N$<br>( $V_{\text{Meas}} \leq 1,5 V$ )<br>Ω | Ordering code   |
|---------------------|------------|------------------------|----------------------------------|-----------------------------------------------|------------------------------------------------|-----------------|
| R 102               | 400        | 50                     | 225 <sup>1)</sup>                | 100                                           | 700                                            | B59102-R50-A10  |
| R 102               | 400        | 70                     | 180                              | 115                                           | 700                                            | B59102-R70-A10  |
| R 102               | 400        | 90                     | 155                              | 130                                           | 700                                            | B59102-R90-A10  |
| R 102               | 400        | 110                    | 125                              | 145                                           | 700                                            | B59102-R110-A10 |
| R 102               | 400        | 130                    | 105                              | 160                                           | 700                                            | B59102-R130-A10 |
| R 102               | 400        | 150                    | 90                               | 180                                           | 700                                            | B59102-R150-A10 |
| R 102 <sup>3)</sup> | 400        | 180                    | 66                               | 205                                           | 700                                            | B59102-R180-A10 |
| R 102               | 400        | 220                    | 80                               | 240                                           | 1000                                           | B59102-R220-A10 |
| R 102               | 400        | 240                    | 75                               | 255                                           | 1000                                           | B59102-R240-A10 |
| R 102               | 340        | 270                    | 85                               | 280                                           | 1300                                           | B59102-R270-A10 |
| R 102               | 320        | 290                    | 78                               | 295                                           | 1300                                           | B59102-R290-A10 |

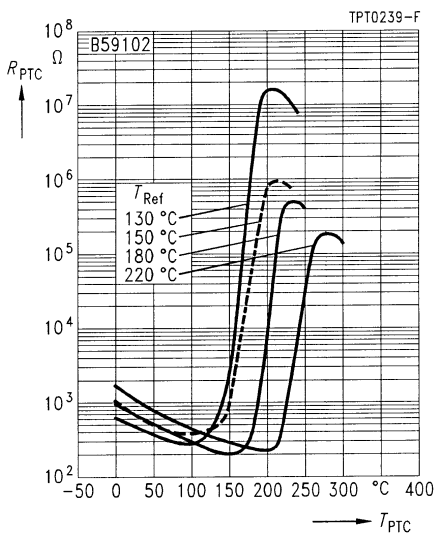
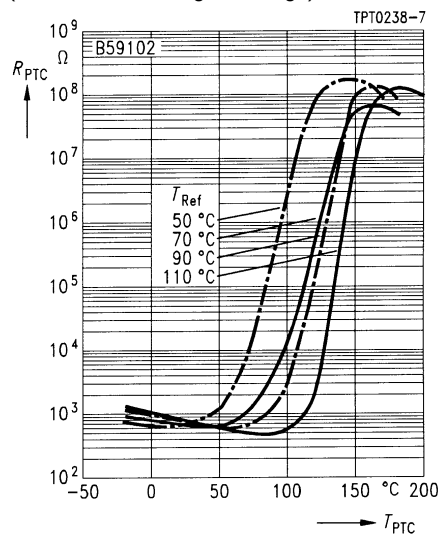
1) Valid for  $T_A < 25$  °C

2) Measured peak-to-peak

3) UL approval

### Characteristics (typical)

PTC resistance  $R_{PTC}$  versus PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



PTC resistance  $R_{PTC}$  versus PTC temperature  $T_{PTC}$   
(measured at low signal voltage)

