

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

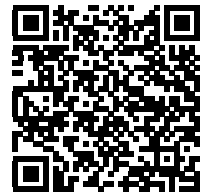
**Part Number:** B59755B0115A070  
**Manufacturer:** EPCOS - TDK Electronics  
**Package:** Radial, Disc  
**Availability:** Please confirm with sales

### Product Page:

<https://antrexco.com/product/details/epcos-tdk-electronics/b59755b0115a070.html>

### Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

## Contact Information

Email: [info@antrexco.com](mailto:info@antrexco.com)

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

## Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

### Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

## Overcurrent Protection

B597\*\*

Leaded Disks, Uncoated, 380 V to 1000 V

B 750 ... B 774

### Applications

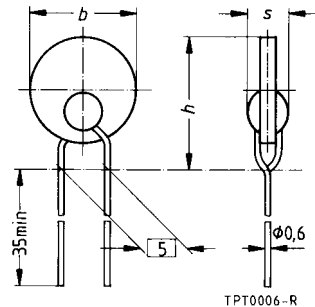
- Overcurrent and short-circuit protection

### Features

- Lead-free terminals
- Manufacturer's logo, date code and type designation stamped on in black
- UL approval to UL 1434 with  $V_{\max} = 420$  V and  $V_N = 380$  V (file number E69802), except B 758

### Delivery mode

- Cardboard strips (standard)
- Cardboard tape reeled or in AMMO pack on request



Dimensions (mm)

| Type  | $b_{\max}$ | $h_{\max}$ | $s_{\max}$ |
|-------|------------|------------|------------|
| B 75* | 12,5       | 16,5       | 7,0        |
| B 77* | 8,5        | 12,1       | 7,0        |

### General technical data

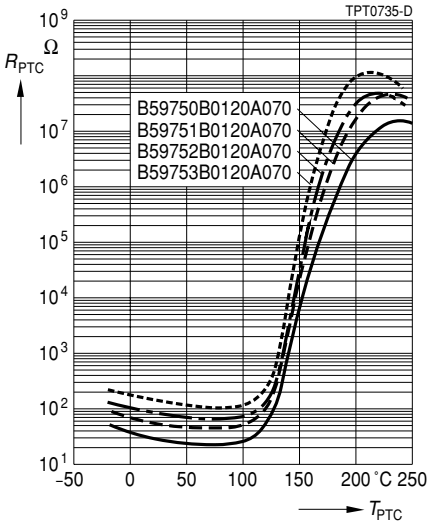
|                                         |          |            |    |
|-----------------------------------------|----------|------------|----|
| Switching cycles (typ.)                 | $N$      | 100        |    |
| Operating temperature range ( $V = 0$ ) | $T_{op}$ | - 40/+ 125 | °C |
| ( $V = V_{\max}$ )                      | $T_{op}$ | 0/+ 60     | °C |

### Electrical specifications and ordering codes

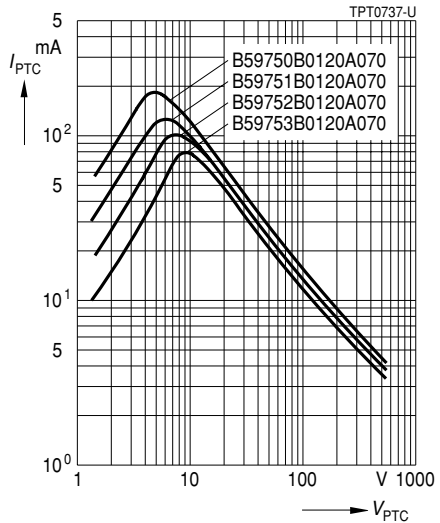
| Type                                                                                    | $I_N$<br>mA | $I_S$<br>mA | $I_{S\max}$<br>( $V = V_{\max}$ )<br>A | $t_S$<br>( $V_{\max}$ , $I_{S\max}$ )<br>s | $I_r$ (typ.)<br>( $V = V_{\max}$ )<br>mA | $R_N$<br>Ω | $R_{\min}$<br>Ω | Ordering code   |
|-----------------------------------------------------------------------------------------|-------------|-------------|----------------------------------------|--------------------------------------------|------------------------------------------|------------|-----------------|-----------------|
| $V_{\max} = 420$ V, $V_N = 380$ V, $T_{Ref} = 120$ °C (typ.), $\Delta R_N = \pm 25$ %   |             |             |                                        |                                            |                                          |            |                 |                 |
| B 750                                                                                   | 123         | 245         | 2,0                                    | < 6                                        | 4,0                                      | 25         | 13              | B59750B0120A070 |
| B 751                                                                                   | 87          | 173         | 2,0                                    | < 4                                        | 3,5                                      | 50         | 26              | B59751B0120A070 |
| B 752                                                                                   | 69          | 137         | 2,0                                    | < 4                                        | 3,5                                      | 80         | 42              | B59752B0120A070 |
| B 770                                                                                   | 64          | 127         | 1,4                                    | < 4                                        | 3,5                                      | 70         | 45              | B59770B0120A070 |
| B 753                                                                                   | 56          | 112         | 2,0                                    | < 3                                        | 3,0                                      | 120        | 63              | B59753B0120A070 |
| B 754                                                                                   | 50          | 100         | 2,0                                    | < 3                                        | 3,0                                      | 150        | 68              | B59754B0120A070 |
| B 771                                                                                   | 49          | 97          | 1,4                                    | < 3                                        | 2,5                                      | 120        | 76              | B59771B0120A070 |
| B 772                                                                                   | 43          | 86          | 1,4                                    | < 3                                        | 2,5                                      | 150        | 96              | B59772B0120A070 |
| $V_{\max} = 550$ V, $V_N = 500$ V, $T_{Ref} = 115$ °C (typ.), $\Delta R_N = \pm 25$ %   |             |             |                                        |                                            |                                          |            |                 |                 |
| B 755                                                                                   | 28          | 55          | 1,4                                    | < 3                                        | 2,0                                      | 500        | 230             | B59755B0115A070 |
| $V_{\max} = 550$ V, $V_N = 500$ V, $T_{Ref} = 120$ °C (typ.), $\Delta R_N = \pm 25$ %   |             |             |                                        |                                            |                                          |            |                 |                 |
| B 773                                                                                   | 24          | 48          | 1,0                                    | < 3                                        | 2,0                                      | 500        | 320             | B59773B0120A070 |
| $V_{\max} = 550$ V, $V_N = 500$ V, $T_{Ref} = 115$ °C (typ.), $\Delta R_N = \pm 25$ %   |             |             |                                        |                                            |                                          |            |                 |                 |
| B 774                                                                                   | 16          | 32          | 1,0                                    | < 2                                        | 1,5                                      | 1100       | 700             | B59774B0115A070 |
| $V_{\max} = 1000$ V, $V_N = 1000$ V, $T_{Ref} = 110$ °C (typ.), $\Delta R_N = \pm 33$ % |             |             |                                        |                                            |                                          |            |                 |                 |
| B 758                                                                                   | 8           | 17          | 0,5                                    | < 3                                        | 3,0                                      | 7500       | 3380            | B59758B0110A070 |

**Characteristics (typical)**

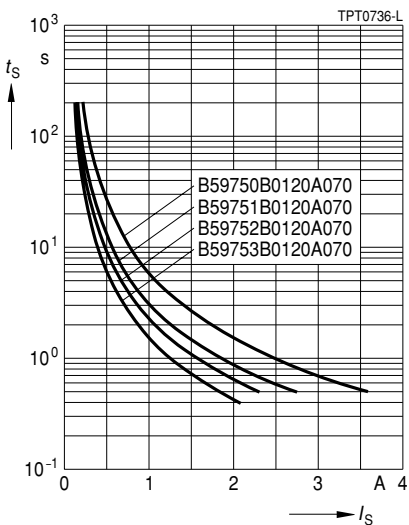
PTC resistance  $R_{PTC}$  versus  
PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



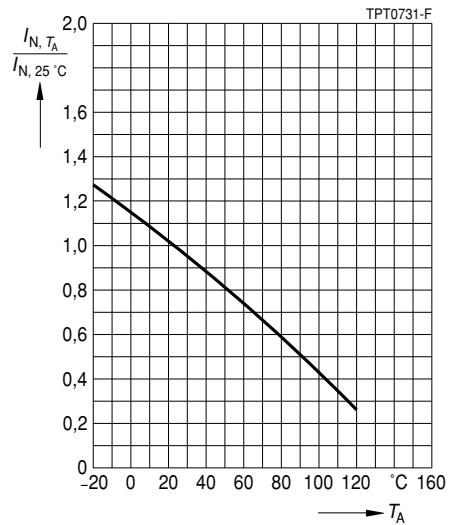
PTC current  $I_{PTC}$  versus PTC voltage  $V_{PTC}$   
(measured at 25 °C in still air)



Switching time  $t_S$  versus switching current  $I_S$   
(measured at 25 °C in still air)

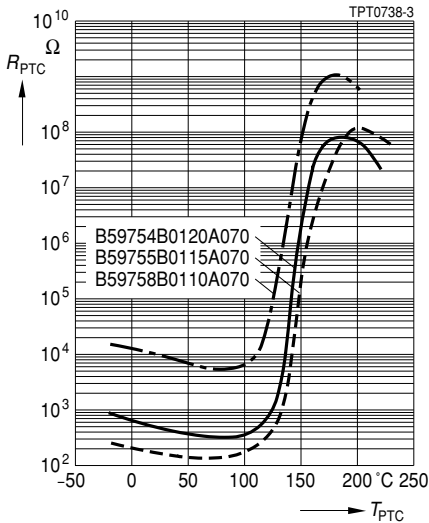


Rated current  $I_N$  versus ambient temperature  $T_A$   
(measured in still air)

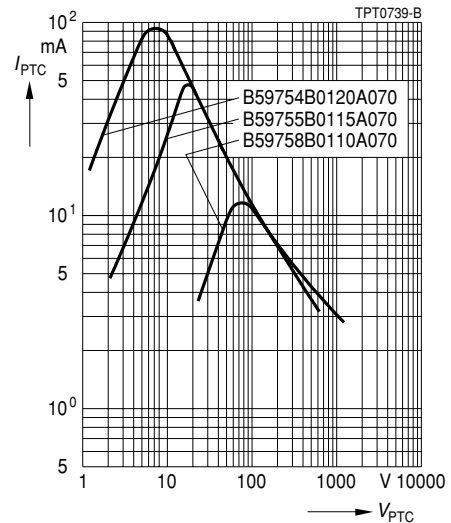


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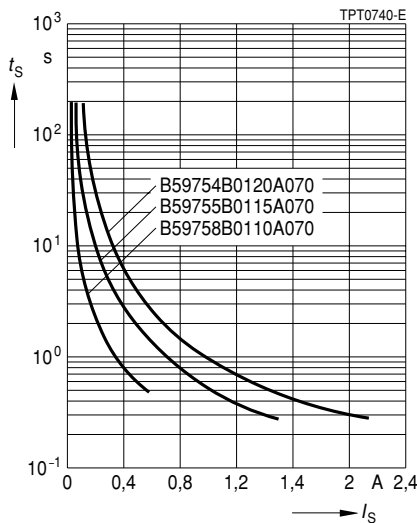
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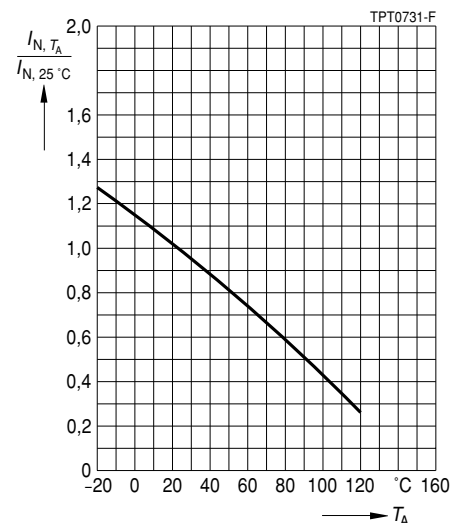
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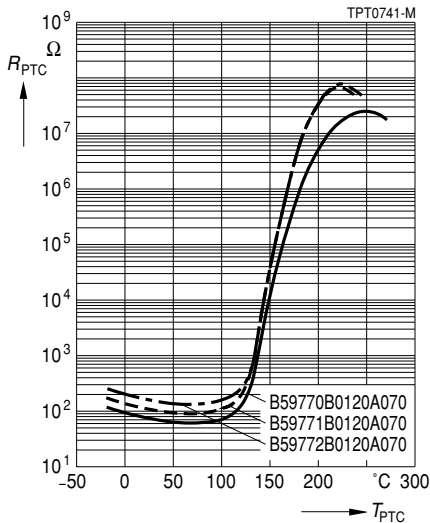


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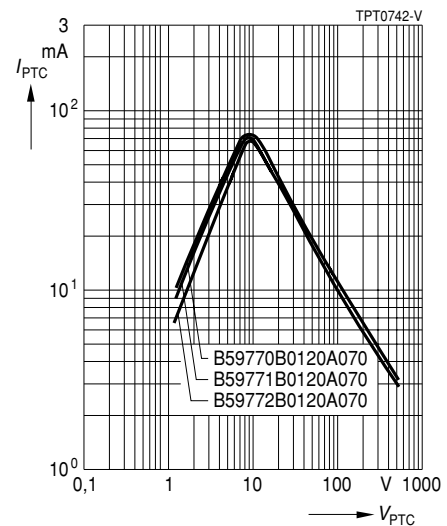


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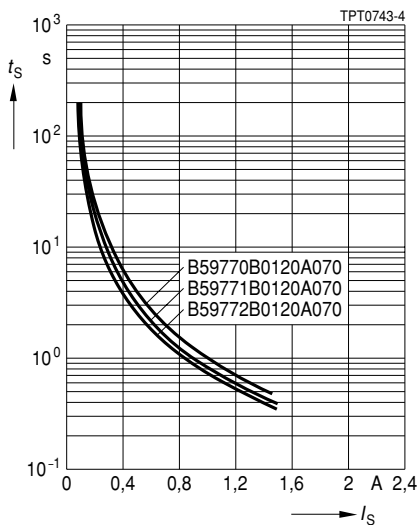
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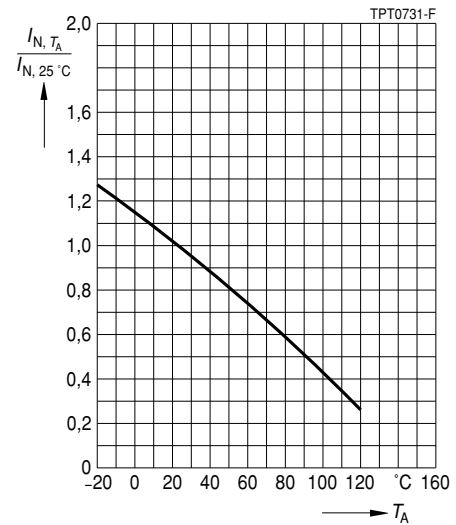
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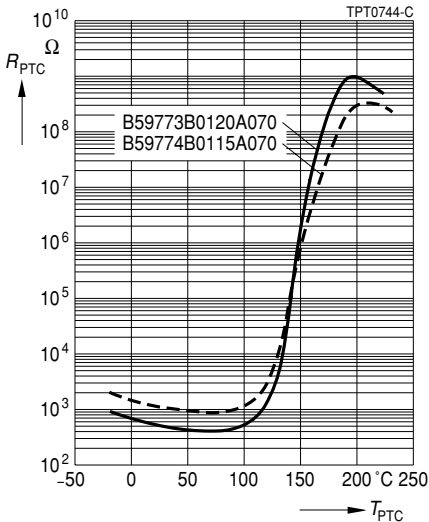


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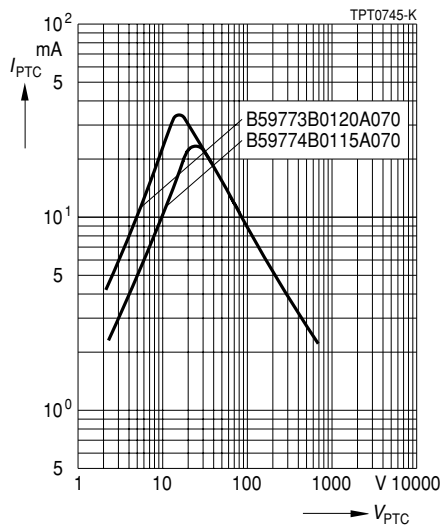


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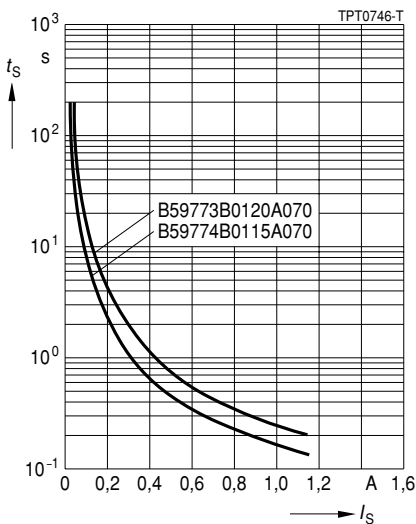
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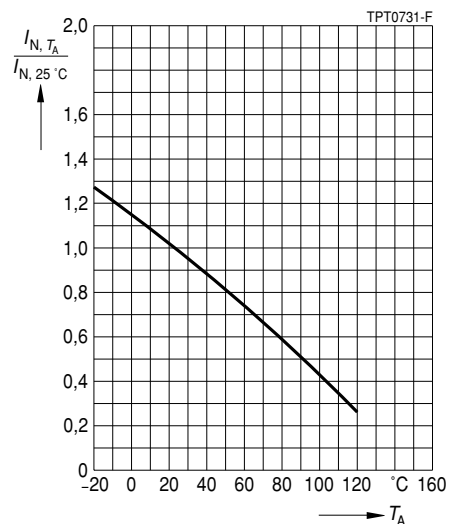
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