

Applications

- Overcurrent protection for 42 V power net

Features

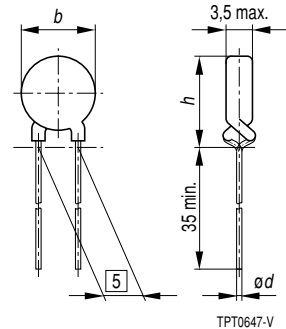
- Lead-free terminals
- Manufacturer's logo and type designation stamped on in white

Options

- Leadless disks and leaded disks without coating available on request
- Thermistors with diameter $b \leq 11,0$ mm are also available on tape (to IEC 60286-2)

Delivery mode

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



Dimensions (mm)

| Type | b_{\max} | $\varnothing d$ | h_{\max} |
|-------|------------|-----------------|------------|
| C 943 | 17,5 | 0,6 | 21,0 |
| C 953 | 13,5 | 0,6 | 17,0 |
| C 963 | 11,0 | 0,6 | 14,5 |
| C 973 | 9,0 | 0,6 | 12,5 |
| C 983 | 6,5 | 0,6 | 10,0 |

General technical data

| | | | |
|---|----------------------|------------|-----|
| Max. operating voltage ($T_A = 125$ °C) | $V_{\max}^{1)}$ | 54 | VDC |
| Max. operating voltage ($t \leq 400$ ms) | $V_{\max, dyn}^{2)}$ | 58 | V |
| Rated voltage | V_N | 42 | VDC |
| Switching cycles (typ.) | N | 100 | |
| Reference temperature (typ.) | T_{Ref} | 120 | °C |
| Resistance tolerance | ΔR_N | ± 20 % | |
| Operating temperature range ($V = 0$) | T_{op} | - 40/+ 125 | °C |
| | T_{op} | - 40/+ 125 | °C |

Electrical specifications and ordering codes

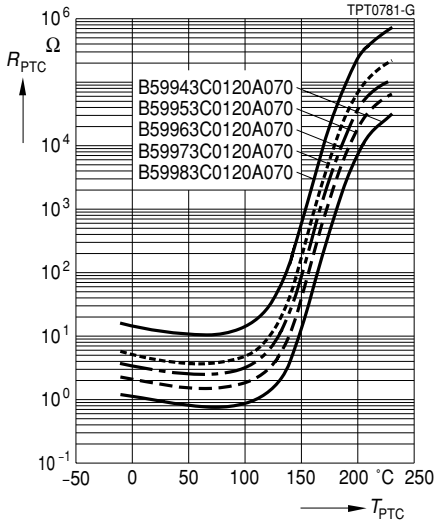
| Type | I_N | I_S | I_{Smax} ($V = V_{max}$) | I_r (typ.) ($V = V_{max}$) | R_N | R_{min} | Ordering code |
|-------|-------|-------|---------------------------------|-----------------------------------|----------|-----------|-----------------|
| | mA | mA | A | mA | Ω | Ω | |
| C 943 | 750 | 1300 | 8,0 | 50 | 1,0 | 0,7 | B59943C0120A070 |
| C 953 | 430 | 770 | 6,0 | 40 | 1,8 | 1,2 | B59953C0120A070 |
| C 963 | 320 | 560 | 5,0 | 30 | 2,7 | 1,8 | B59963C0120A070 |
| C 973 | 230 | 410 | 4,0 | 20 | 4,2 | 2,9 | B59973C0120A070 |
| C 983 | 140 | 240 | 2,0 | 15 | 10,0 | 6,8 | B59983C0120A070 |

1) To ISO/TC22 WD24V-1E

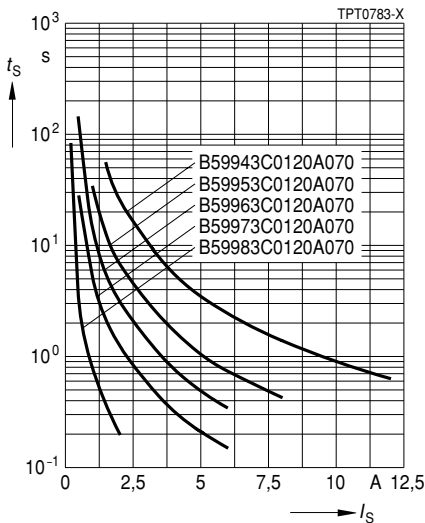
2) Peak value of maximum DC operating voltage, incl. ripple

Characteristics (typical)

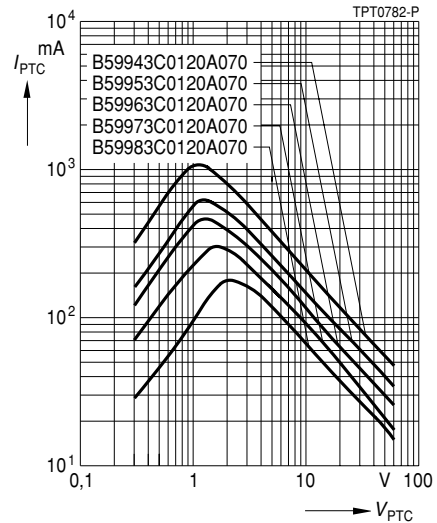
PTC resistance R_{PTC} versus
 PTC temperature T_{PTC}
 (measured at low signal voltage)



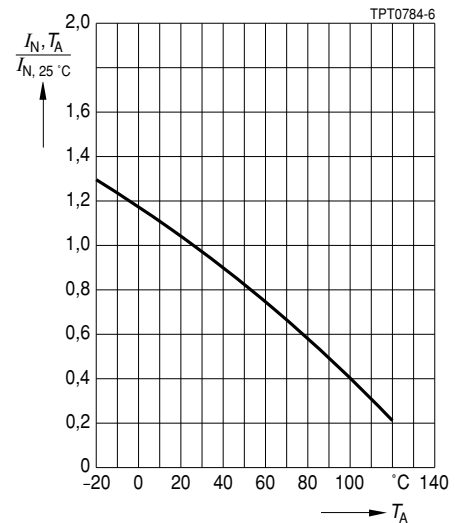
Switching time t_S versus switching current I_S
 (measured at 25 °C in still air)



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



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



Herausgegeben von EPCOS AG

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Published by EPCOS AG

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