Applications

- Limit temperature sensor

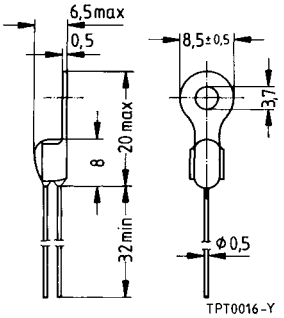
Features

- Sensor with epoxy resin coating
- Tinned leads
- Metal tag for easy mounting
- Characteristics for nominal threshold temperatures of 90 to 160 °C conform with DIN 44081
- Metal tag permits good thermal coupling and thus short response time

Delivery mode

- Cardboard strips in cardboard box

Dimensional drawing



Dimensions (mm)

General technical data

Max. operating voltage	(T_A = 0 … 40 °C)	V_{max}	30	VDC
Max. measuring voltage	(T_A – 25 K … T_{NTT} + 23 K)	$V_{meas,max}$	7,5	VDC
Rated resistance	($V_{PTC} \leq$ 2,5 V)	R_N	≤ 100	Ω
Thermal threshold time		t_a	< 20	s
Operating temperature range	($V \leq V_{meas, max}$)	T_{op}	– 40/T_{NTT} + 23	°C
	($V = V_{max}$)	T_{op}	0/+ 40	°C

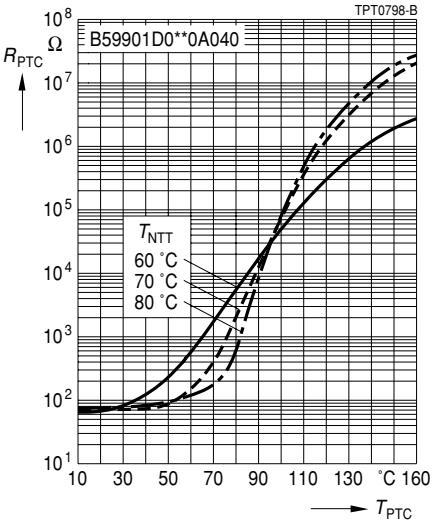
Electrical specifications and ordering codes

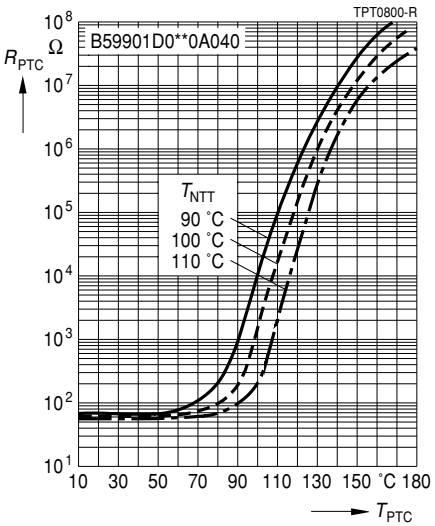
T_{NTT} $\pm \Delta T$ °C	R[1] ($T_{NTT} - \Delta T$) Ω	R[1] ($T_{NTT} + \Delta T$) Ω	R[2] (T_{NTT} + 15 K) Ω	R[1] (T_{NTT} + 23 K) Ω	Stamp code	Ordering code
60 ± 5	≤ 570	≥ 570	—	≥ 10 k	331	B59901D0060A040
70 ± 5	≤ 570	≥ 570	—	≥ 10 k	341	B59901D0070A040
80 ± 5	≤ 570	≥ 570	—	≥ 10 k	351	B59901D0080A040
90 ± 5	≤ 550	≥ 1330	≥ 4 k	—	361	B59901D0090A040
100 ± 5	≤ 550	≥ 1330	≥ 4 k	—	371	B59901D0100A040
110 ± 5	≤ 550	≥ 1330	≥ 4 k	—	381	B59901D0110A040
120 ± 5	≤ 550	≥ 1330	≥ 4 k	—	391	B59901D0120A040
130 ± 5	≤ 550	≥ 1330	≥ 4 k	—	401	B59901D0130A040
140 ± 5	≤ 550	≥ 1330	≥ 4 k	—	411	B59901D0140A040

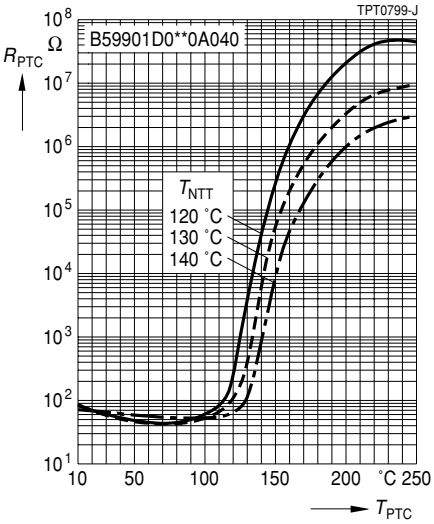
1) $V_{PTC} \leq 2{,}5$ V
2) $V_{PTC} \leq 7{,}5$ V

Characteristics (typical)

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







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