Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

54 V, 160 °C

Applications

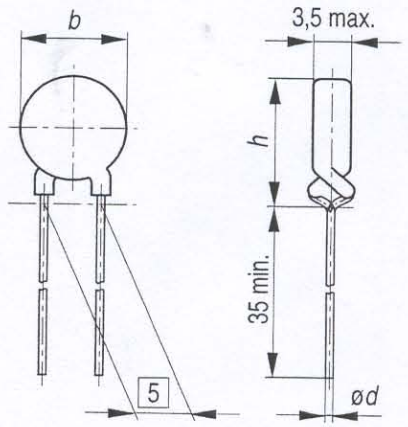
- Overcurrent and short-circuit protection

Features

- Coated thermistor disk
- Manufacturer's logo and type designation stamped on in yellow
- UL approval (E69802)
- VDE approval (exception: C910)

Options

- Leadless disks and leaded disks without coating available upon request
- Thermistors with diameter $b \leq 11{,}0$ mm are also available on tape



TPT0647-V

Dimensions (mm)

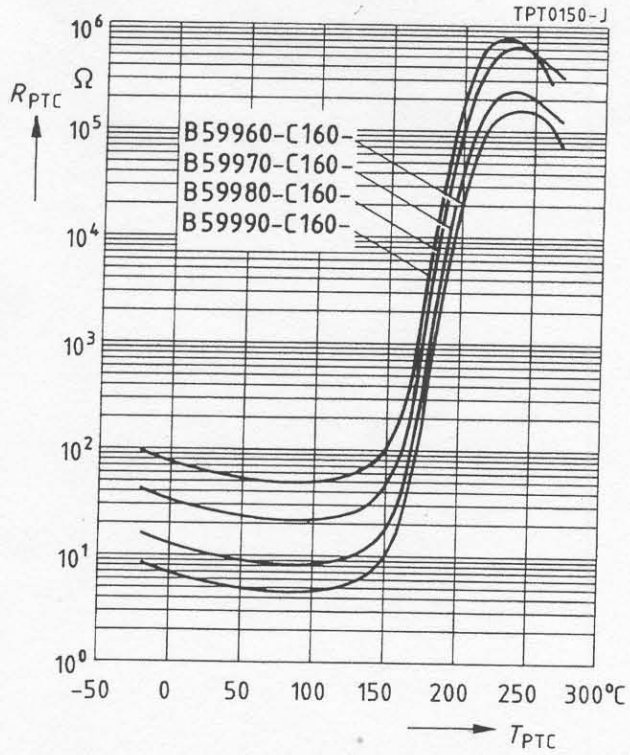
Type	b_{max}	Ød	h_{max}
C 910	26,0	0,8	29,5
C 930	22,0	0,6	25,5
C 940	17,5	0,6	21,0
C 950	13,5	0,6	17,0
C 960	11,0	0,6	14,5
C 970	9,0	0,6	12,5
C 980	6,5	0,6	10,0
C 990	4,0	0,5	7,5

Max. operating voltage (T_A = 60 °C)	V_{max}	54	V
Rated voltage	V_N	42	V
Switching cycles (typ.)	N	100	
Switching time at V_{max}, I_{Smax}	t_S	≤ 6	s
Reference temperature (typ.)	T_{Ref}	160	°C
Resistance tolerance	ΔR_N	± 25 %	
Operating temperature range (V = 0)	T_{op}	– 40/+ 125	°C
($V = V_{max}$)	T_{op}	0/60	°C

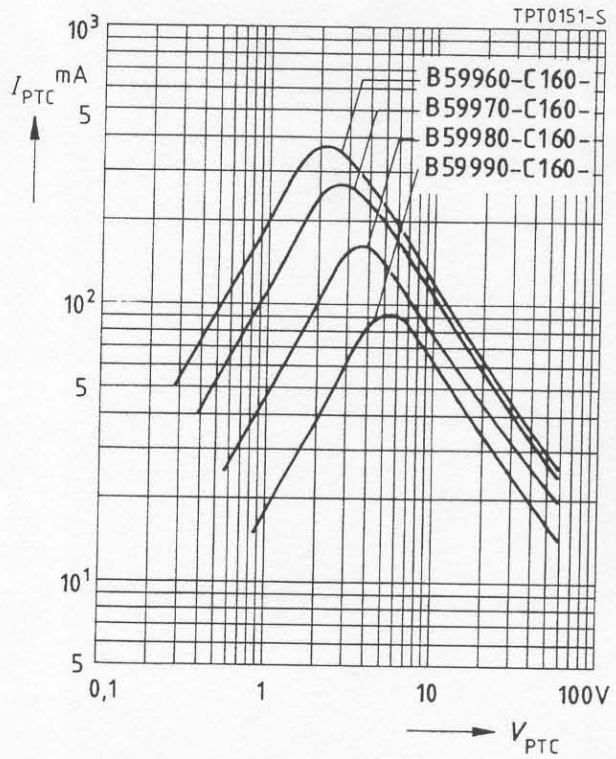
Type	I_N	I_S	I_{Smax} (V=V_{max})	I_r (typ.) (V=V_{max})	R_N	R_{min}	Ordering code
	mA	mA	A	mA	Ω	Ω	
C 910	1150	2370	15,0	110	0,9	0,6	B59910-C160-A70
C 930	770	1570	10,0	70	1,65	1,1	B59930-C160-A70
C 940	550	1140	8,0	50	2,3	1,5	B59940-C160-A70
C 950	360	730	5,5	35	3,7	2,4	B59950-C160-A70
C 960	280	560	4,3	30	5,6	3,7	B59960-C160-A70
C 970	170	355	3,0	25	9,4	6,2	B59970-C160-A70
C 980	95	200	1,0	20	25	16,5	B59980-C160-A70
C 990	55	120	0,7	15	55	36,3	B59990-C160-A70

Characteristics (typical)

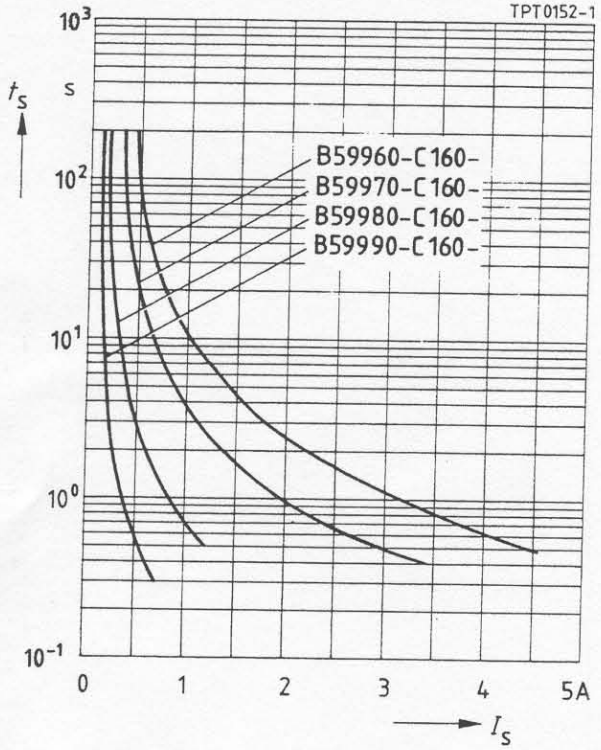
PTC resistance R_{PTC} versus PTC temperature T_{PTC} (measured at low signal voltage)



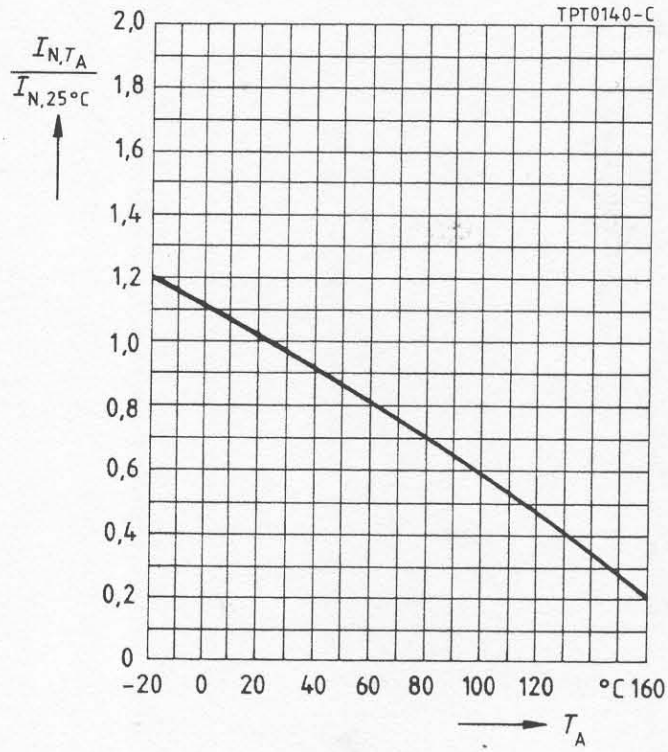
PTC current I_{PTC} versus PTC voltage V_{PTC} (measured at 25 °C in still air)



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

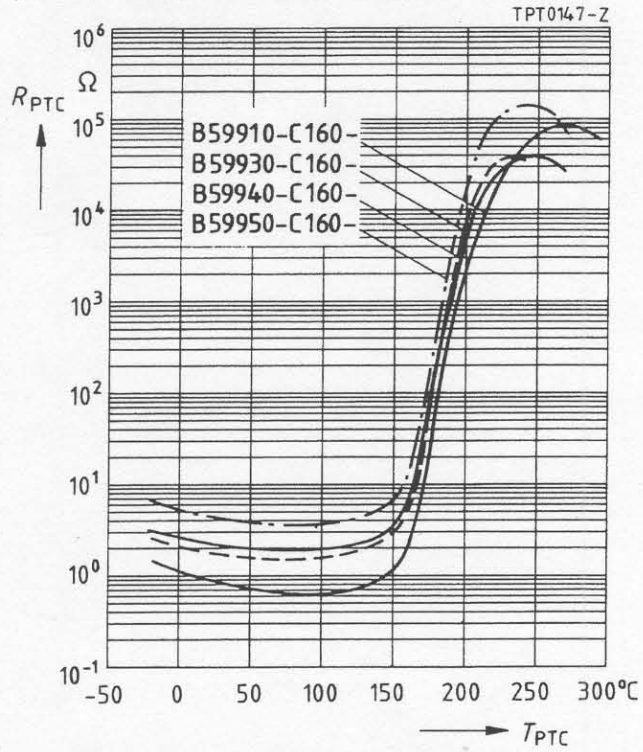


Rated current I_N versus ambient temperature T_A (measured in still air)

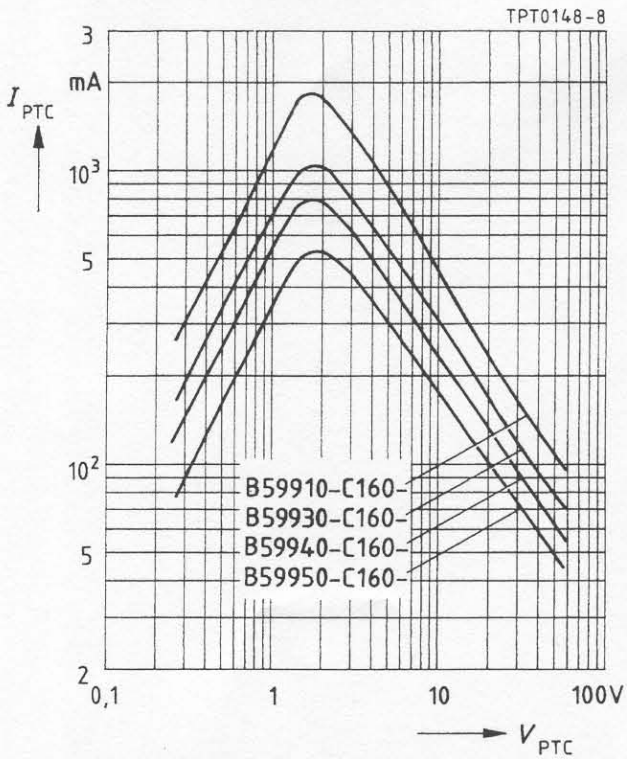


Characteristics (typical)

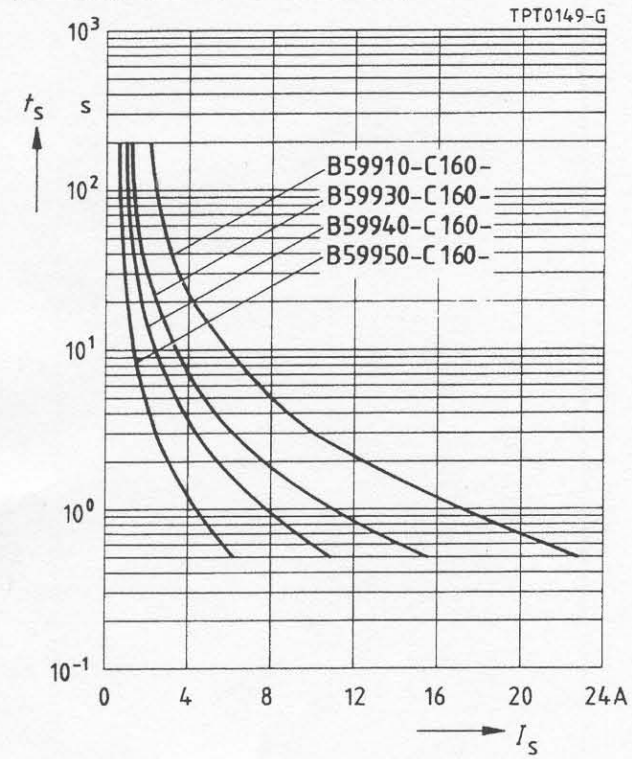
PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



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)