

Overcurrent Protection	B59101 ... B59301
SMDs, EIA Size 3225 and 4032, 24 V	P 1101 ... P 1301



Applications

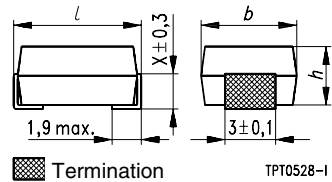
- Overcurrent protection
- Short-circuit protection

Features

- Molded epoxy encapsuation, lead-free tinned solder terminals
- Suitable for wave and reflow soldering
- Suitable for automatic placement

Delivery mode

- Blister tape, 330-mm reel



Dimensions (mm)

Tolerances $\pm 0,5$ mm

Type	<i>h</i>	<i>b</i>	<i>l</i>	<i>x</i>	Size
P 1101	3,2	6,3	8,0	1,7	3225
P 1201	3,2	6,3	8,0	1,7	3225
P 1301	3,2	8,0	10,0	2,3	4032

General technical data

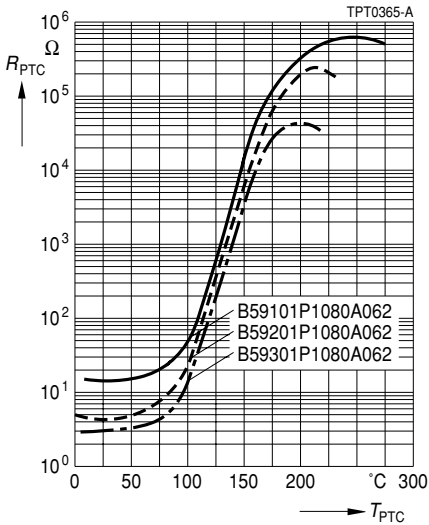
Max. operating voltage ($T_A = 60^\circ\text{C}$)	$V_{\max}$	30	VDC or VAC
Rated voltage	V_N	24	VDC or VAC
Switching cycles (typ.)	<i>N</i>	100	
Resistance tolerance	ΔR_N	$\pm 25\%$	
Operating temperature range ($V = 0$)	T_{op}	$-40/+125$	$^\circ\text{C}$
($V = V_{\max}$)	T_{op}	$0/+60$	$^\circ\text{C}$

Electrical specifications and ordering codes

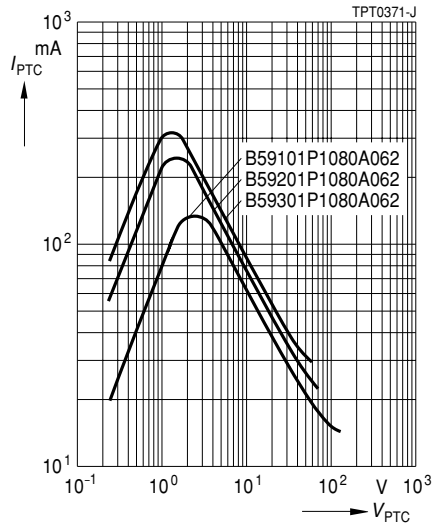
Type	I_N mA	I_S mA	$I_{S\max}$ ($V = V_{\max}$) A	I_r ($V = V_{\max}$) mA	R_N Ω	$R_{\min}$ Ω	Ordering code
Reference temperature $T_{\text{Ref}} = 80^\circ\text{C}$							
P 1101	90	185	0,7	25	13	7,80	B59101P11080A062
P 1201	165	340	1,0	34	4,6	2,70	B59201P11080A062
P 1301	205	420	1,6	38	3,1	1,85	B59301P11080A062
Reference temperature $T_{\text{Ref}} = 120^\circ\text{C}$							
P 1101	170	355	0,7	35	13	7,80	B59101P1120A062
P 1201	265	545	1,0	45	4,6	2,70	B59201P1120A062
P 1301	310	640	1,6	53	3,1	1,85	B59301P1120A062

Characteristics (typical) for 80 °C

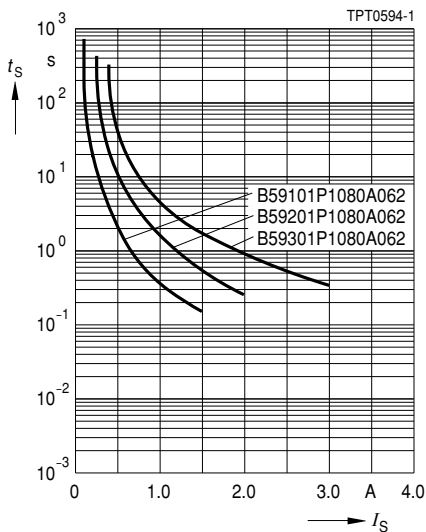
PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



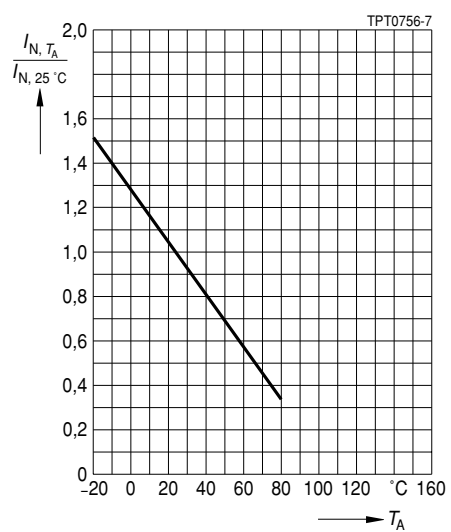
PTC current I_{PTC} versus PTC voltage V_{PTC}
(measured at 25 °C in still air)



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

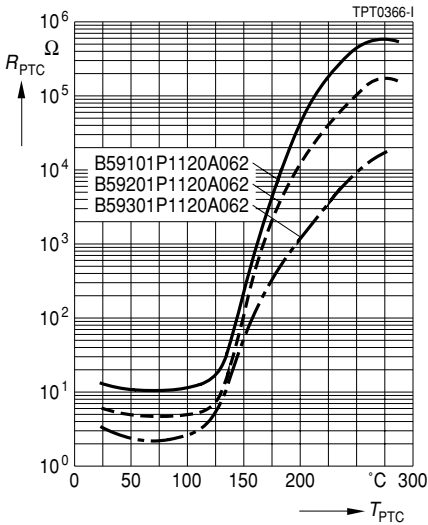


Rated current I_N versus ambient temperature T_A
(measured in still air)

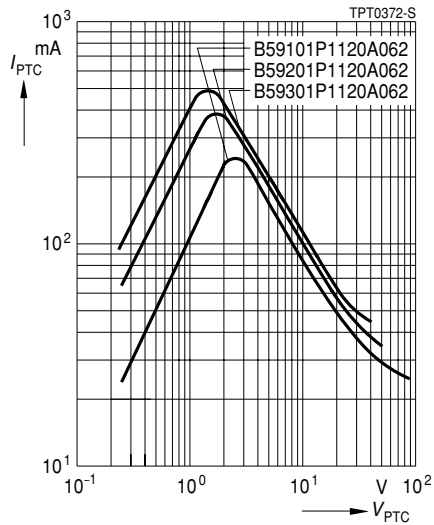


Characteristics (typical) for 120 °C

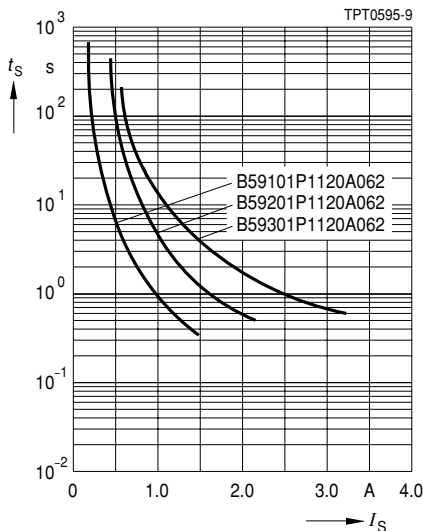
PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



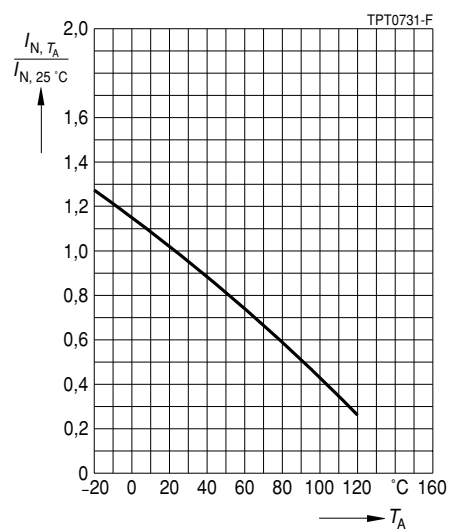
PTC current I_{PTC} versus PTC voltage V_{PTC}
(measured at 25 °C in still air)



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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