

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

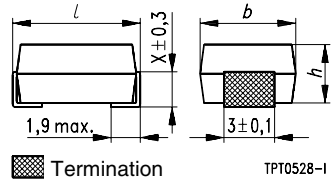


### Applications

- 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

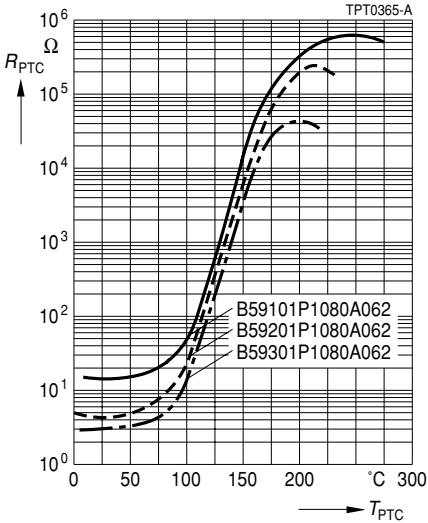
Max. operating voltage ( $T_A = 60^\circ\text{C}$ )	$V_{\text{max}}$	30	VDC or VAC
Rated voltage	$V_N$	24	VDC or VAC
Switching cycles (typ.)	<i>N</i>	100	
Resistance tolerance	$\Delta R_N$	$\pm 25\%$	
Operating temperature range ( $V = 0$ )	$T_{\text{op}}$	$-40/+125$	$^\circ\text{C}$
	$T_{\text{op}}$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

### Electrical specifications and ordering codes

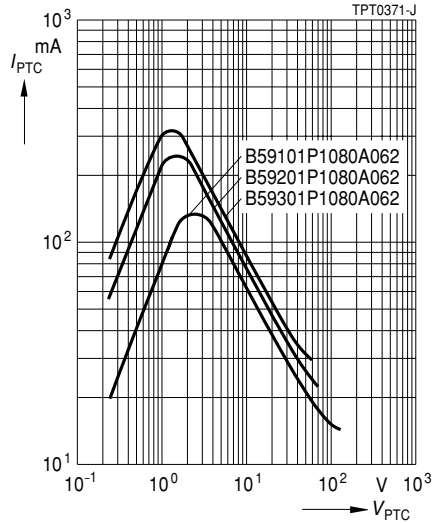
Type	$I_N$ mA	$I_S$ mA	$I_{S\text{max}}$ ( $V = V_{\text{max}}$ ) A	$I_r$ ( $V = V_{\text{max}}$ ) mA	$R_N$ $\Omega$	$R_{\text{min}}$ $\Omega$	Ordering code
Reference temperature $T_{\text{Ref}} = 80^\circ\text{C}$							
P 1101	90	185	0,7	25	13	7,80	B59101P11080A062
P 1201	165	340	1,0	34	4,6	2,70	B59201P11080A062
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**

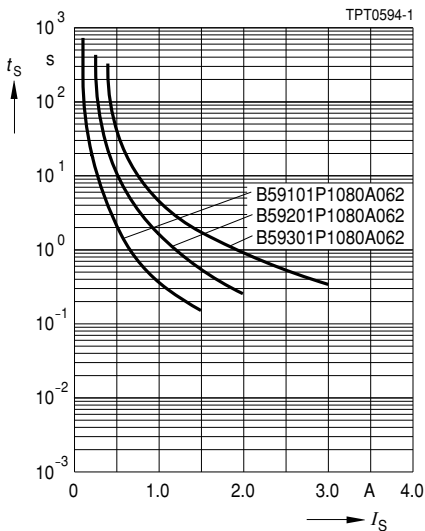
PTC resistance  $R_{PTC}$  versus  
PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



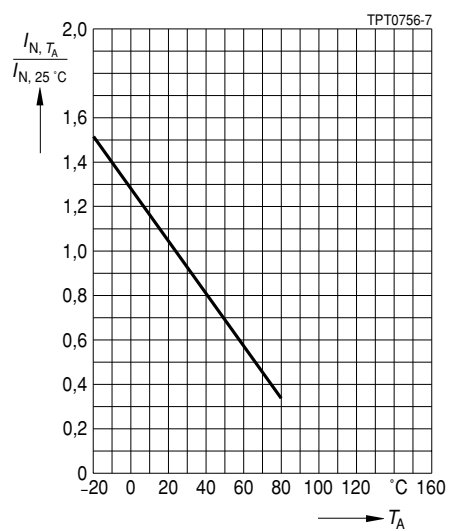
PTC current  $I_{PTC}$  versus PTC voltage  $V_{PTC}$   
(measured at 25 °C in still air)



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

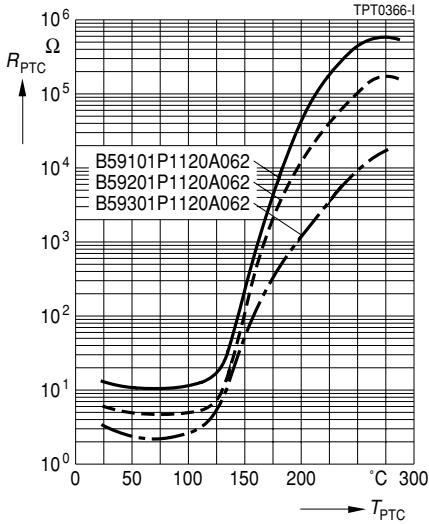


Rated current  $I_N$  versus ambient temperature  $T_A$   
(measured in still air)

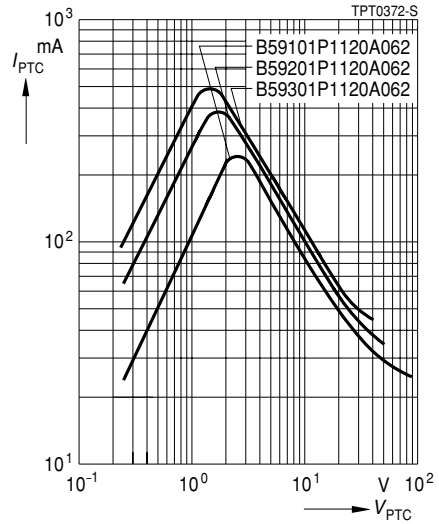


**Characteristics (typical) for 120 °C**

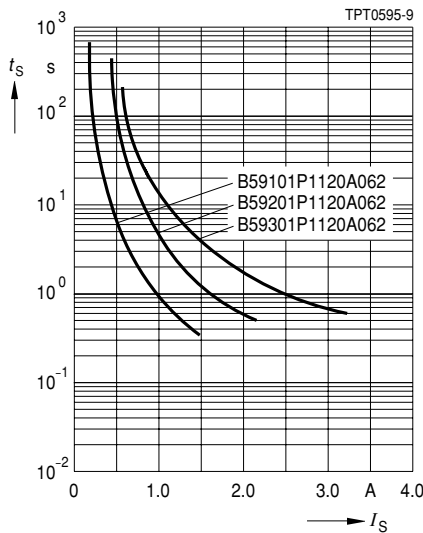
PTC resistance  $R_{PTC}$  versus  
PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



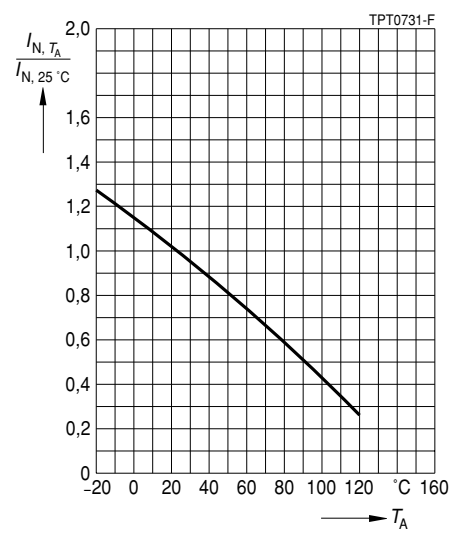
PTC current  $I_{PTC}$  versus PTC voltage  $V_{PTC}$   
(measured at 25 °C in still air)



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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