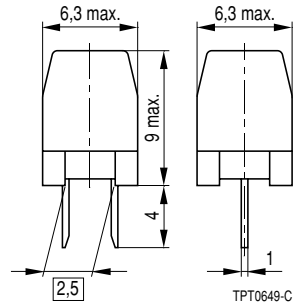


**Applications**

- Delayed switching of loads
- For frequent switching

**Features**

- Encased thermistor disk with clamp contacts
- Flame-retardant plastic case
- Case material UL-listed
- Silver-plated lead-free solder pins
- Manufacturer's logo and type designation stamped on in white
- Stable performance throughout 100 000 switching cycles



Dimensions (mm)

**Delivery mode**

- Packed in deep-drawn trays

**General technical data**

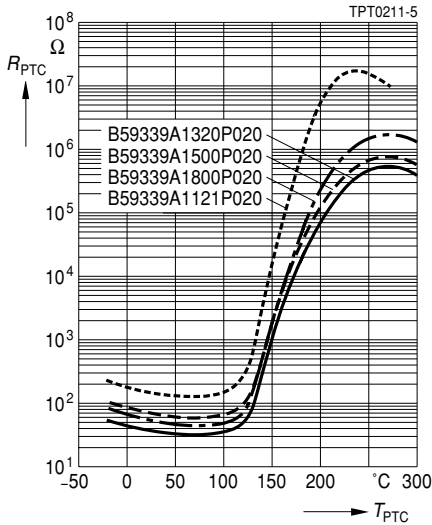
Switching cycles (typ.)	$N$	100000	
Switching time	$t_S$	$\leq 0,5$	s
Resistance tolerance	$\Delta R_N$	$\pm 25\%$	
Operating temperature range ( $V = 0$ )	$T_{op}$	$- 25/+ 125$	$^{\circ}\text{C}$
	$T_{op}$	$0/+ 60$	$^{\circ}\text{C}$

**Electrical specifications and ordering codes**

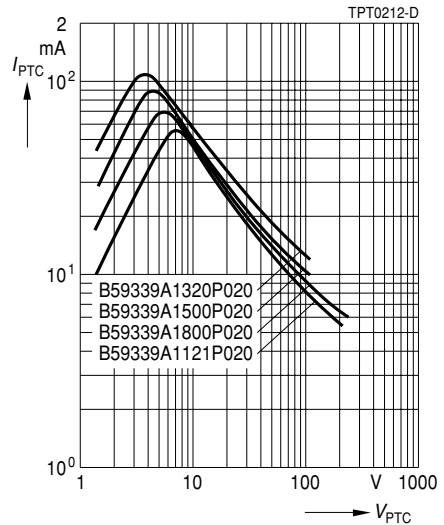
Type	$T_{Ref}$ $^{\circ}\text{C}$	$I_N$ mA	$I_S$ mA	$I_{Smax}$ ( $V = V_{max}$ ) A	$I_r$ ( $V = V_{max}$ ) mA	$R_N$ $\Omega$	$R_{min}$ $\Omega$	Ordering code
$V_{max} = 80\text{ V}, V_N = 63\text{ V}$								
J 280	120	77	150	1,10	14	32	20	B59339A1320P020
J 281	120	60	120	0,90	10	50	31	B59339A1500P020
$V_{max} = 160\text{ V}, V_N = 110\text{ V}$								
J 282	120	48	100	0,70	6,0	80	50	B59339A1800P020
J 283	120	39	80	0,58	5,0	120	75	B59339A1121P020
$V_{max} = 265\text{ V}, V_N = 220\text{ V}$								
J 284	120	30	60	0,42	4,0	200	110	B59339A1201P020
J 285	120	24	50	0,33	4,0	320	200	B59339A1321P020
J 286	120	20	40	0,27	3,5	500	260	B59339A1501P020
J 287	120	15	30	0,22	3,0	800	480	B59339A1801P020
J 288	120	13	26	0,18	2,5	1200	630	B59339A1122P020
J 289	120	10	20	0,15	2,0	2000	900	B59339A1202P020
J 290	115	8	16	0,12	1,5	3200	1500	B59339A1322P020

**Characteristics (typical)**

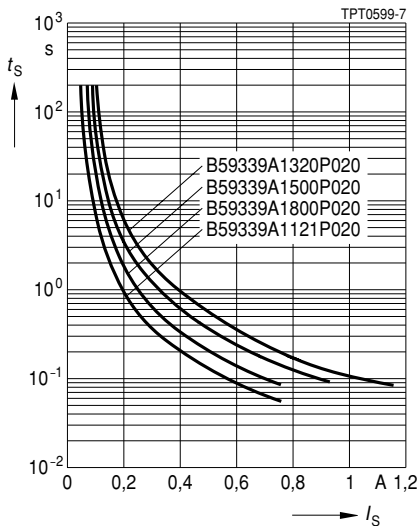
PTC resistance  $R_{PTC}$  versus  
PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



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

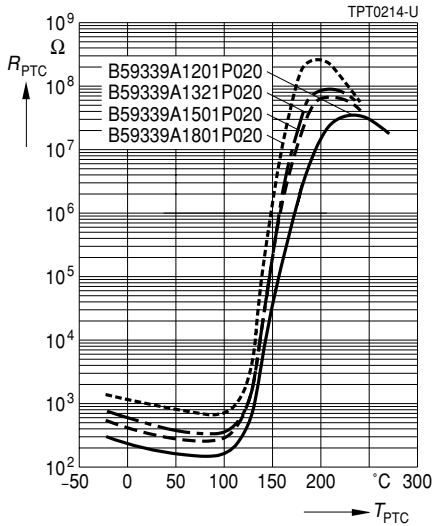


Switching time  $t_S$  versus switching current  $I_S$   
(measured at 25 °C in still air)

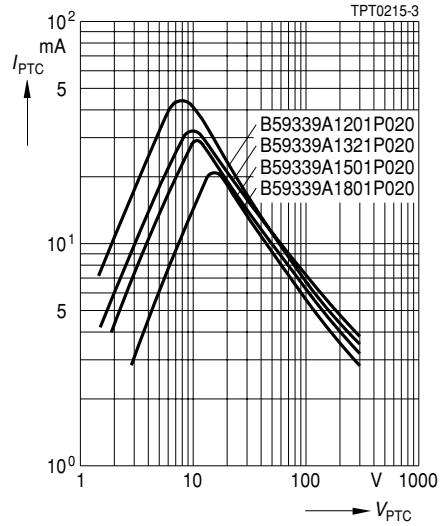


**Characteristics (typical)**

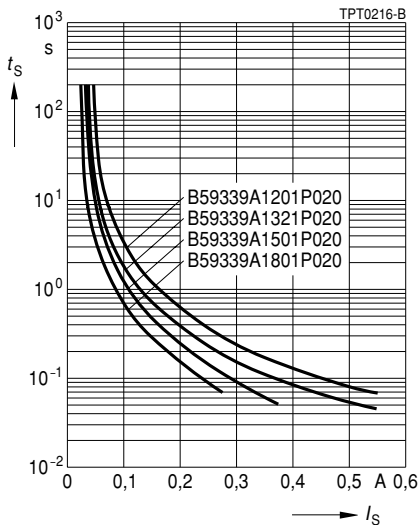
PTC resistance  $R_{PTC}$  versus  
PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



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

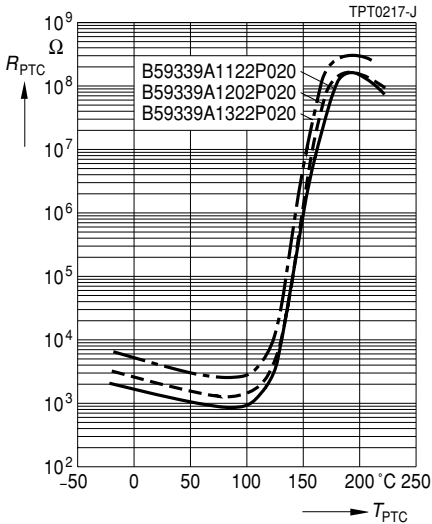


Switching time  $t_S$  versus switching current  $I_S$   
(measured at 25 °C in still air)

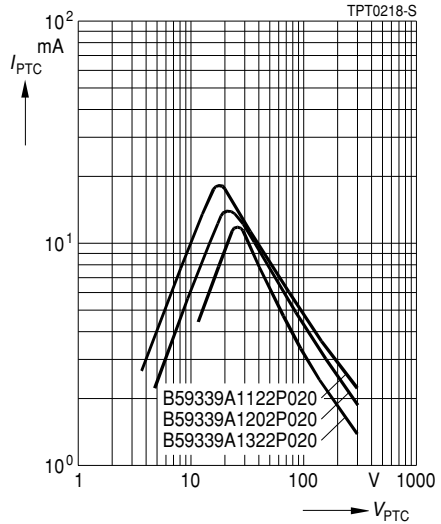


**Characteristics (typical)**

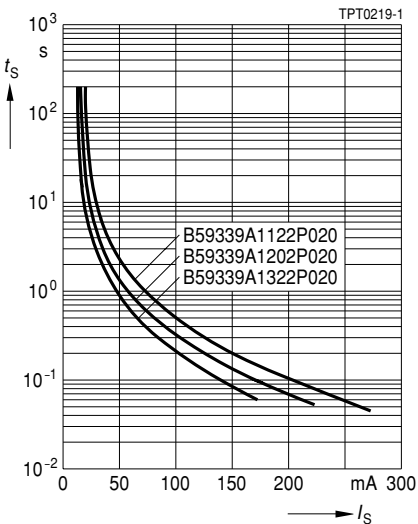
PTC resistance  $R_{PTC}$  versus  
PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



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)



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