

**Applications**

- Overcurrent and short-circuit protection

**Features**

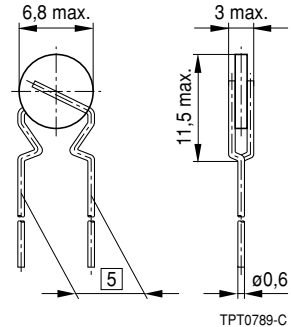
- Lead-free terminals
- High thermal stability
- Small size
- UL approval to UL 1434 (file number E69802)
- VDE approval (license number 104843 E)

**Options**

- Leadless disks available on request

**Delivery mode**

- Cardboard strips (standard)
- Cardboard tape reeled or in AMMO pack on request



Dimensions (mm)

**General technical data**

Max. operating voltage ( $T_A = 60\text{ }^\circ\text{C}$ )	$V_{\max}$	15	VDC or VAC
Rated voltage	$V_N$	12	VDC or VAC
Switching cycles (typ.)	$N$	100	
Reference temperature (typ.)	$T_{\text{Ref}}$	150	$^\circ\text{C}$
Resistance tolerance	$\Delta R_N$	$\pm 20\%$	
Operating temperature range ( $V = 0$ )	$T_{\text{op}}$	-25/+125	$^\circ\text{C}$
	$T_{\text{op}}$	0/+60	$^\circ\text{C}$

**Electrical specification and ordering code**

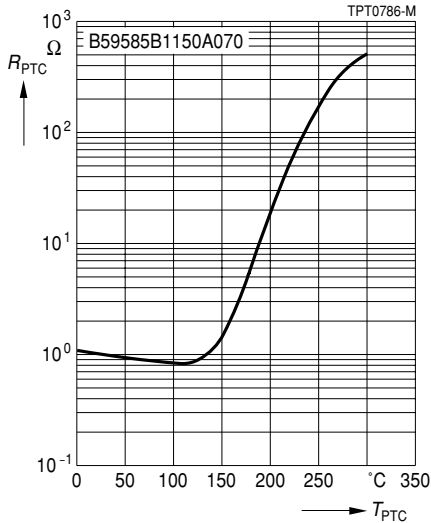
$I_N$	$I_S$	$I_{S\max}$ ( $V = V_{\max}$ )	$I_r$ (typ.) ( $V = V_N$ )	$I_r$ (typ.) ( $V = V_{\max}$ )	$R_N$	$R_{\min}$	Ordering code
mA	mA	A	mA	mA	$\Omega$	$\Omega$	
650	1250	2,5	120	150	1	0,55	B59585B1150A070

**Reliability data**

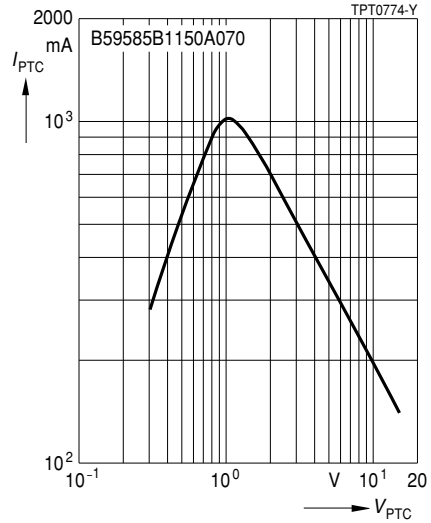
Test	Standard	Test conditions	$ \Delta R_{25}/R_{25} $
Switching test at room temperature	IEC 60738-1	$I_{Smax}$ $V_{max}$ Number of cycles: 100	< 25%
Dry heat at upper category temperature	IEC 60738-1	Storage at upper category temperature for $t$ : 1000 h	< 25%
Life test at $V_{max}/T_{op}$	IEC 60738-1	Storage at $V_{max}/T_{op}$ for $t$ : 1000 h	< 25%
Storage in damp heat	IEC 60068-2-3	Temperature of air: 40 °C Relative humidity of air: 93% Duration: 56 days	< 10%
Rapid change of temperature in air	IEC 60068-2-14, Test $N_a$	$T = T_{LCT}$ , $T = T_{UCT}$ Number of cycles: 5 $t$ : 30 min	< 10%
Vibration	IEC 60068-2-6, Test $F_C$	$f = 10-55$ Hz $h = 0,75$ mm (respectively 10 g) $t$ : 3 · 2 h	< 5%
Bump	IEC 60068-2-27	Pulse shape: half-sine $a = 50$ g Pulse duration: 1 ms; 6 · 3 pulses	< 5%
Climatic sequence	IEC 60068-2-30	Dry heat: $T = T_{UCT}$ $t$ : 16 h Damp heat first cycle Cold: $T = T_{LCT}$ $t$ : 2 h Damp heat 5 cycles	< 10%

**Characteristics (typical)**

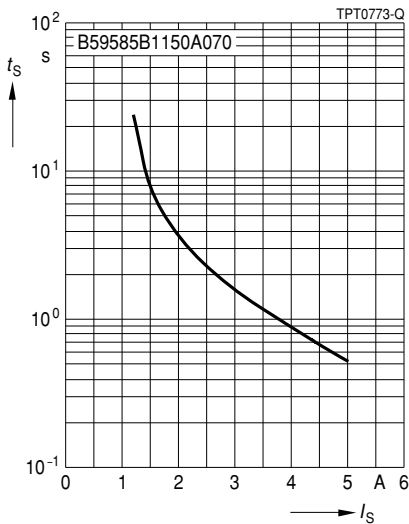
PTC resistance  $R_{PTC}$  versus  
PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



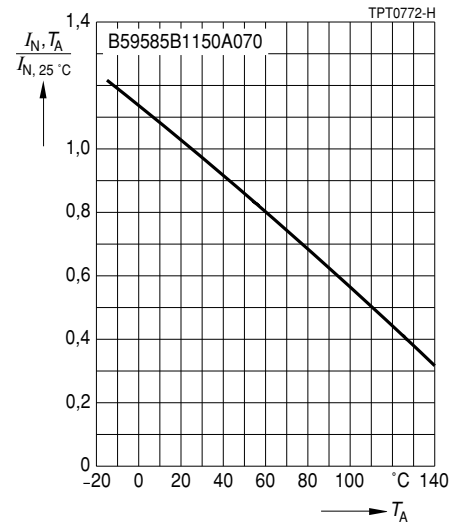
PTC current  $I_{PTC}$  versus PTC voltage  $V_{PTC}$   
(measured at 25 °C in still air)



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)



**Herausgegeben von EPCOS AG**

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