

Applications

- Overcurrent and short-circuit protection

Features

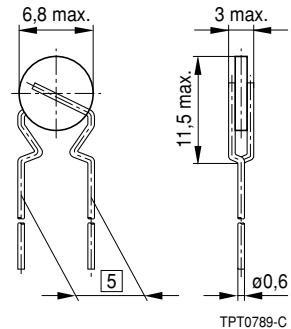
- Lead-free terminals
- High thermal stability
- Small size
- UL approval to UL 1434 (file number E69802)
- VDE approval (license number 104843 E)

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_{Ref}	150	$^\circ\text{C}$
Resistance tolerance	ΔR_N	$\pm 20\%$	
Operating temperature range ($V = 0$)	T_{op}	-25/+125	$^\circ\text{C}$
	T_{op}	0/+60	$^\circ\text{C}$

Electrical specification and ordering code

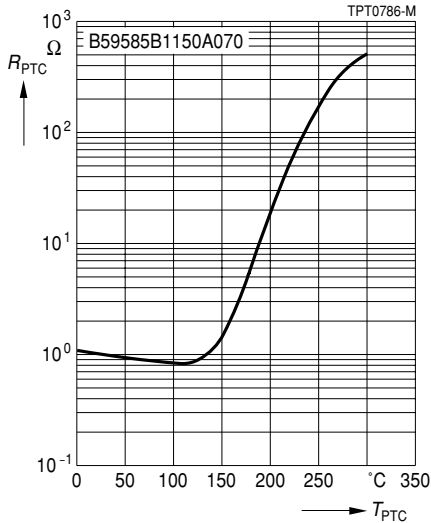
I_N	I_S	$I_{S\max}$ ($V = V_{\max}$)	I_r (typ.) ($V = V_N$)	I_r (typ.) ($V = V_{\max}$)	R_N	R_{\min}	Ordering code
mA	mA	A	mA	mA	Ω	Ω	
650	1250	2,5	120	150	1	0,55	B59585B1150A070

Reliability data

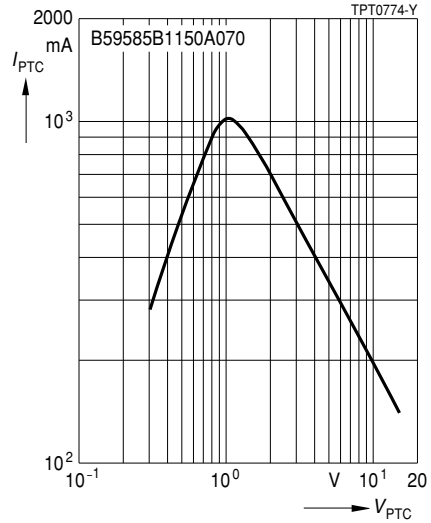
Test	Standard	Test conditions	$ \Delta R_{25}/R_{25} $
Switching test at room temperature	IEC 60738-1	I_{Smax} V_{max} Number of cycles: 100	< 25%
Dry heat at upper category temperature	IEC 60738-1	Storage at upper category temperature for t : 1000 h	< 25%
Life test at V_{max}/T_{op}	IEC 60738-1	Storage 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)

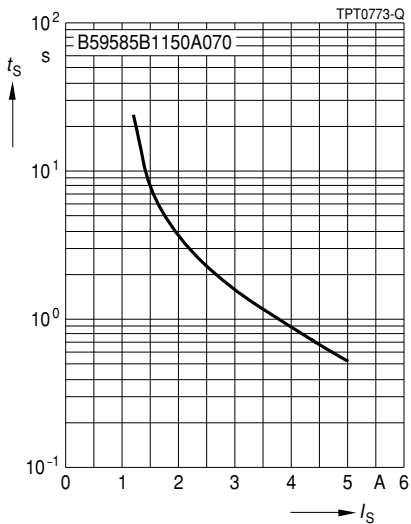
PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



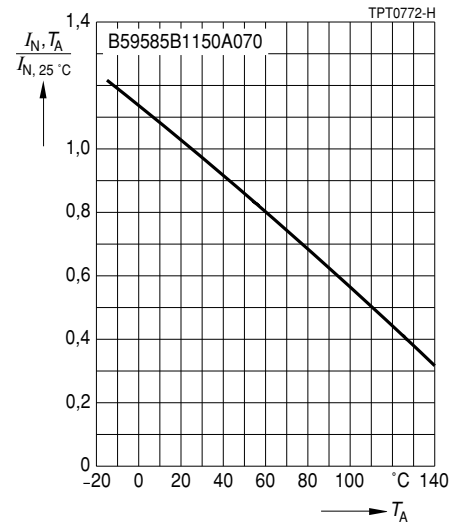
PTC current I_{PTC} versus PTC voltage V_{PTC}
(measured at 25 °C in still air)



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)



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