

**Applications**

- Switch-mode power supplies
- Soft-start motors, e.g. in vacuum cleaners

**Features**

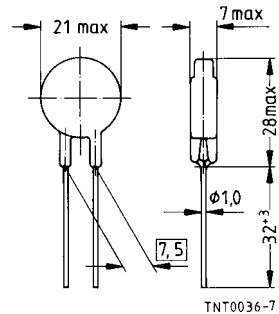
- Useable in series connections up to 265 V<sub>rms</sub>
- Coated thermistor disk
- Kinked leads of tinned copper wire
- Wide resistance range
- UL approval (E69802)

**Options**

Resistance tolerance < 20 % available on request

**Delivery mode**

Bulk (standard),  
cardboard tape, reeled or in Ammo pack



Dimensions in mm  
Approx. weight 4 g

Climatic category (IEC 60068-1)		55/170/56	
Max. power at 25 °C	$P_{max}$	5,1	W
Resistance tolerance	$\Delta R_N/R_N$	± 20 %	
Rated temperature	$T_N$	25	°C
B value tolerance	$\Delta B/B$	± 3 %	
Dissipation factor (in air)	$\delta_{th}$	approx. 24	mW/K
Thermal cooling time constant (in air)	$\tau_c$	approx. 100	s
Heat capacity	$C_{th}$	approx. 2400	mJ/K

$R_{25}$ Ω	$I_{max}$ (0 ... 65 °C) A	No. of R/T char- acteristic	$B_{25/100}$ K	$C_T^{(1)}$ 230 V μF	$C_T^{(1)}$ 110 V μF	Parameters for $R(I)^{(1)}$		Ordering code
						$k$	$n$	
1,0	16,0	1202	2800	1000	4000	0,766	- 1,30	B57364S0109M000
2,0	12,0	1203	2900	1000	4000	0,966	- 1,32	B57364S0209M000
2,5	11,0	1203	2900	1000	4000	1,04	- 1,32	B57364S0259M000
4,0	9,5	1308	3060	1000	4000	1,20	- 1,34	B57364S0409M000
5,0	8,5	1308	3060	1000	4000	1,29	- 1,34	B57364S0509M000
10	7,5	1304	3300	1000	4000	1,55	- 1,37	B57364S0100M000

1) For details on the capacitance  $C_T$  as well as on the parameters  $k$  and  $n$  refer to "Application Notes", pages 40–42.

**Reliability data**

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typical)	Remarks
Storage in dry heat	IEC 60068-2-2	Storage at upper category temperature $T: 170\text{ °C}$ $t: 1000\text{ h}$	< 10 %	No visible damage
Storage in damp heat, steady state	IEC 60068-2-3	Temperature of air: 40 °C Relative humidity of air: 93 % Duration: 21 days	< 5 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: – 55 °C Upper test temperature: 170 °C Number of cycles: 10	< 10 %	No visible damage
Endurance		$I = I_{\max}$ $t: 1000\text{ h}$	< 10 %	No visible damage
Cyclic endurance		$I = I_{\max}$ , 1000 cycles On-time = 1 min Cooling time = 6 min	< 10 %	No visible damage
Transient load		Capacitance = $C_T$ Number of cycles: 1000	< 5 %	No visible damage