Applications

- Switch-mode power supplies

Features

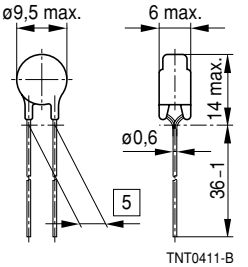
- Useable in series connections up to 265 V_{rms}
- Coated thermistor disk
- Kinked leads of tinned copper wire
- Wide resistance range
- Small space requirement
- Cost-effective
- UL approval (E69802)

Options

Resistance tolerance < 20 % available on request

Delivery mode

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



Dimensions in mm
Approx. weight 0,8 g

Climatic category (IEC 60068-1)		55/170/56	
Max. power at 25 °C	P_{max}	1,8	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)	δ_{th}	approx. 9	mW/K
Thermal cooling time constant (in air)	τ_c	approx. 60	s
Heat capacity	C_{th}	approx. 540	mJ/K

R_{25} Ω	I_{max} (0 … 65 °C) A	No. of *R*/*T* characteristic	$B_{25/100}$ K	C_T[1] 230 V µF	C_T[1] 110 V µF	Parameters for *R(I)*[1] *k*	*n*	Ordering code
5,0	4,2	1202	2800	200	800	0,710	– 1,30	B57235S0509M000
6,0	4,0	1202	2800	200	800	0,757	– 1,30	B57235S0609M000
8,0	3,5	1203	2900	200	800	0,814	– 1,32	B57235S0809M000
10,0	3,0	1203	2900	200	800	0,879	– 1,32	B57235S0100M000

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 °C *t*: 1000 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 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

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