

Inrush Current Limiters

B57236

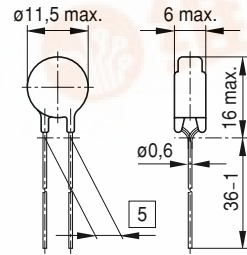
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Applications

- 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
- UL approval (E69802)



TNT0412-J

Options

Resistance tolerance < 20 % available on request

Delivery mode

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

Dimensions in mm
 Approx. weight 1 g

Climatic category (IEC 60068-1)		55/170/56	
Max. power at 25 °C	P_{max}	2,1	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)	δ_{th}	approx. 10	mW/K
Thermal cooling time constant (in air)	τ_c	approx. 70	s
Heat capacity	C_{th}	approx. 700	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	
2,5	5,5	1201	2700	200	800	0,621	- 1,27	B57236S0259M000
5,0	4,5	1202	2800	300	1200	0,761	- 1,30	B57236S0509M000
10	3,5	1203	2900	300	1200	0,942	- 1,32	B57236S0100M000
12	3,2	1203	2900	300	1200	1,00	- 1,32	B57236S0120M000
16	2,9	1207	2965	300	1200	1,08	- 1,33	B57236S0160M000
20	2,8	1208	3065	300	1200	1,13	- 1,34	B57236S0200M000
25	2,5	1208	3065	300	1200	1,22	- 1,34	B57236S0250M000
50	1,9	1209	3165	300	1200	1,44	- 1,38	B57236S0500M000
80	1,6	1304	3300	400	1600	1,64	- 1,37	B57236S0800M000

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

Diese Broschüre ersetzt die vorige Ausgabe.

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