

Applications

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

Features

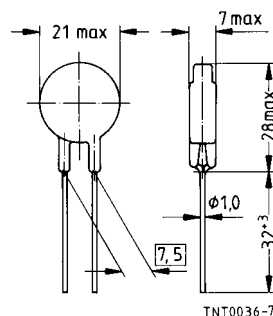
- Useable in series connections up to 265 V_{rms}
- Coated thermistor disk
- Kinked leads of tinned copper wire
- Wide resistance range
- UL approval (E69802)

Options

Resistance tolerance < 20 % available on request

Delivery mode

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



TNT0036-7

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)	δ_{th}	approx. 24	mW/K
Thermal cooling time constant (in air)	τ_c	approx. 100	s
Heat capacity	C_{th}	approx. 2400	mJ/K

R_{25}	$I_{\max}$ (0 ... 65 °C)	No. of R/T char- acteristic	$B_{25/100}$	$C_T^{1)}$ 230 V	$C_T^{1)}$ 110 V	Parameters for $R(I)^{1)}$		Ordering code
Ω	A		K	μF	μF	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 °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

Herausgegeben von EPCOS AG**Unternehmenskommunikation, Postfach 80 17 09, 81617 München, DEUTSCHLAND****☎ ++49 89 636 09, FAX (0 89) 636-2 26 89**

© EPCOS AG 2002. Vervielfältigung, Veröffentlichung, Verbreitung und Verwertung dieser Broschüre und ihres Inhalts ohne ausdrückliche Genehmigung der EPCOS AG nicht gestattet.

Bestellungen unterliegen den vom ZVEI empfohlenen Allgemeinen Lieferbedingungen für Erzeugnisse und Leistungen der Elektroindustrie, soweit nichts anderes vereinbart wird.

Diese Broschüre ersetzt die vorige Ausgabe.

Fragen über Technik, Preise und Liefermöglichkeiten richten Sie bitte an den Ihnen nächstgelegenen Vertrieb der EPCOS AG oder an unsere Vertriebsgesellschaften im Ausland. Bauelemente können aufgrund technischer Erfordernisse Gefahrstoffe enthalten. Auskünfte darüber bitten wir unter Angabe des betreffenden Typs ebenfalls über die zuständige Vertriebsgesellschaft einzuholen.

Published by EPCOS AG**Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY****☎ ++49 89 636 09, FAX (0 89) 636-2 26 89**

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.