



**Inrush Current Limiters**

**B57236**

**Insulation Voltage 1000 VDC for 1 s,  $\Delta R_N/R_N = \pm 15\%$**

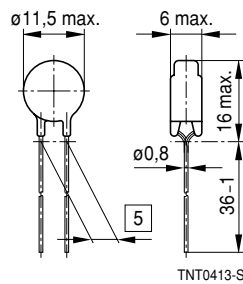
**S 236**

**Applications**

- Switch-mode power supplies

**Features**

- Close resistance tolerance, improved insulation voltage
- 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)



TNT0413-S

**Delivery mode**

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

Dimensions in mm  
Approx. weight 1,7 g

Climatic category (IEC 60068-1)		55/170/56	
Max. power at 25 °C	$P_{max}$	2,4	W
Resistance tolerance	$\Delta R_N/R_N$	$\pm 15\%$	
Rated temperature	$T_N$	25	°C
B value tolerance	$\Delta B/B$	$\pm 3\%$	
Dissipation factor (in air)	$\delta_{th}$	approx. 14	mW/K
Thermal cooling time constant (in air)	$\tau_c$	approx. 50	s
Heat capacity	$C_{th}$	approx. 700	mJ/K
Test voltage ( $t = 1$ s)	$V_T$	1000	VDC

$R_{25}$ 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	B57236S0259L002
3,0	5,0	1202	2800	300	1200	0,80	- 1,31	B57236S0309L002
5,0	4,5	1202	2800	300	1200	0,761	- 1,30	B57236S0509L002
8,0	3,7	1203	2900	300	1200	1,11	- 1,34	B57236S0809L002

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



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**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**

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