

Thermal
cut-off

S

SSW1

Applications

- Household appliances
- Electronic appliances
- Engineering
- Fan heaters
- Transformers
- Automotive industry

Benefits

- Small compact design
- Broad product line
- Cut-off temperatures up to 240°C

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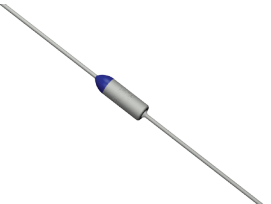
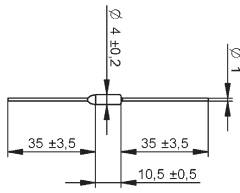
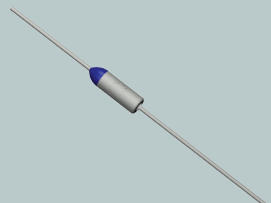
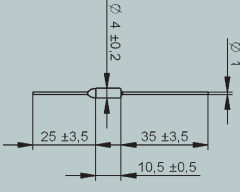
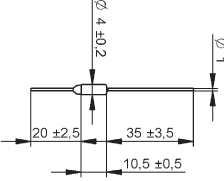


Microtherm International Cooperation

technical data

ratings	SSW1-series	
function	non resetting, thermally sensitive, single pole, normally closed	
rated voltage, rated current at 50 / 60 Hz	UL, cUL, VDE, TUV, PSE, CCC, EK	250V 10A
	VDE, EK	250V 15A
	UL, cUL	125V 15A* for SW-109T,152T, 106T, 153T, 108T,110T, 111T, 114T, 139T, 128T only
transient overload test current	DC current pulses, in amplitude 150A and a duration of 3ms with 10s intervals, are applied for 100 successive cycles through the current path	
guidelines and norms	RoHS-conformity, REACH-conformity production according to the European Directives 2011/65/EU	
approvals	VDE 	No. 40026132 (Germany)
	TÜV 	No. R 9937251 and R 9937533 (Germany)
	UL/cUL 	No. E126429 (USA)
	CCC 	No. 2003010205038994 (China)
	EK 	No. HC05001-7053A (Korea)
	PSE 	No. JD 60010713 and JD 60010743 (Japan)

standard types

type	illustration	drawing dimensions (mm)	technical specification
35-35 long			80.5 ±7.5 x Ø 4.0 ±0.2 mm Leads Ø 1.0 mm, AWG 18
25-35 medium			70.5 ±7.5 x Ø 4.0 ±0.2 mm Leads Ø 1.0 mm, AWG 18
20-35 short			65.5 ±6.5 x Ø 4.0 ±0.2 mm Leads Ø 1.0 mm, AWG 18

SSW1-series	T _f	tolerance	T _h	T _m	EK	UL	cUL	VDE	TÜV	CCC	PSE
SW-102T	72°C	- 4 K	47°C	200°C	•	•	•	•	•	•	•
SW-105T	77°C	- 4 K	52°C	200°C	•	•	•	•	•	•	•
SW-109T*	84°C	- 5 K	57°C	180°C	•	•	•	•	•	•	•
SW-152T*	90°C	- 4 K	65°C	180°C	•	•	•	•	applied	•	•
SW-106T*	91°C	- 4 K	66°C	180°C	•	•	•	•	applied	•	•
SW-153T*	93°C	- 5 K	68°C	180°C	•	•	•	•	applied	•	•
SW-104T	98°C	- 4 K	73°C	190°C	•	•	•	•	•	•	•
SW-108T*	100°C	- 5 K	75°C	190°C	•	•	•	•	•	•	•
SW-110T*	109°C	- 5 K	84°C	190°C	•	•	•	•	•	•	•
SW-111T*	121°C	- 4 K	94°C	200°C	•	•	•	•	•	•	•
SW-115T	126°C	- 4 K	100°C	200°C	•	•	•	•		•	•
SW-129T	128°C	- 5 K	103°C	200°C	•	•	•	•	•	•	•
SW-114T*	139°C	- 4 K	114°C	200°C	•	•	•	•	•	•	•
SW-138T	144°C	- 5 K	119°C	260°C	•	•	•	•	•	•	•
SW-116T	152°C	- 4 K	127°C	270°C	•	•	•	•	•	•	•
SW-120T	167°C	- 4 K	144°C	280°C	•	•	•	•	•	•	•
SW-118T	169°C	- 4 K	144°C	280°C	•						•
SW-127T	184°C	- 6 K	159°C	220°C	•	•	•	•	•	•	•
SW-122T	192°C	- 7 K	162°C	300°C	•						•
SW-125T	195°C	- 6 K	165°C	300°C	•	•	•	•	•	•	•
SW-139T*	216°C	- 6 K	178°C	370°C**	•	•	•	•	•	•	•
SW-124T	228°C	- 6 K	187°C	370°C	•	•	•	•	•	•	•
SW-128T*	240°C	- 6 K	193°C	370°C**	•	•	•	•	•	•	•

*125V 15A (UL, C-UL) for SW-109T,152T, 106T, 153T, 108T,110T, 111T, 114T, 139T, 128T only

• = approved

** T_m of SW-128T & 139T, approved by UL, 370°C

Rated functioning temperature (T_f)

The temperature at which a thermal cut off (TCO) changes its state of conductivity to open circuit with detection current as the only load. The tolerance according to UL 1020 is +0 / -10°C

Holding temperature (T_h)

The maximum temperature at which a thermal cut off can be maintained while conducting rated current for 168 hours which will not cause a change in state of conductivity to open circuit.

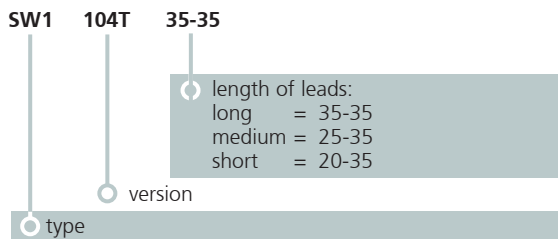
Max. overshoot temperature (T_m)

Above this temperature the thermal cut off might conduct again

Rated current

The maximum current which the thermal cut off is able to carry for a specified time at T_c without alteration of its functioning temperature

Ordering example



Marking example

SW -	type
104T	version
250V,10A	rated voltage (V), rated current (A)
98°C	rated functioning temperature (°C)
XXX	lot code



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Deviations from standard controls on request

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