



Product Service

# CERTIFICATE

No. B 096048 0013 Rev. 01

**Holder of Certificate:** **BESTBRIGHT ELECTRONICS CO LTD**

#3 Building, Modern Enterprise  
Accelerator Park  
Song Shan Lake High-tech Industrial Development Zone  
523808 Dongguan City, Guangdong Province  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** **Thermistors  
(PTC thermistor for current limitation)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64105223089702

**Valid until:** 2029-05-29

**Date,** 2024-05-31

( Martin Ma )

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## Model(s):

SMDH0805B010TF\*\*\*, SMDH1206B010TF\*\*\*,  
 SMDH1206B016TF\*\*\*, SMDH1206B030TF\*\*\*,  
 SMDH1206B035TF\*\*\*, SMDH1206B035TF/30\*\*\*,  
 SMDH1206B050TF\*\*\*, SMDH1206B075TF\*\*\*,  
 SMDH1210B010TF\*\*\*, SMDH1210B050TF\*\*\*,  
 SMDH2920B125TF\*\*\*, SMDH0805B005TF\*\*\*,  
 SMDH0805B016TF\*\*\*, SMDH0805B020TF\*\*\*,  
 SMDH0805B035TF\*\*\*, SMDH0805B050TF\*\*\*,  
 SMDH1206B005TF\*\*\*, SMDH1206B012TF\*\*\*,  
 SMDH1206B020TF\*\*\*, SMDH1206B025TF\*\*\*,  
 SMDH1206B110TF\*\*\*, SMDH1206B125TF\*\*\*,  
 SMDH1206B150TF\*\*\*, SMDH1206B175TF\*\*\*,  
 SMDH1206B200TF\*\*\*, SMDH1210B016TF\*\*\*,  
 SMDH1210B020TF\*\*\*, SMDH1210B035TF\*\*\*,  
 SMDH1210B075TF\*\*\*, SMDH1210B110TF\*\*\*,  
 SMDH1210B125TF\*\*\*, SMDH1210B150TF\*\*\*,  
 SMDH1812B014TF\*\*\*, SMDH1812B020TF\*\*\*,  
 SMDH1812B035TF\*\*\*, SMDH1812B050TF\*\*\*,  
 SMDH1812B075TF\*\*\*, SMDH1812B110TF\*\*\*,  
 SMDH1812B125TF\*\*\*, SMDH1812B150TF\*\*\*,  
 SMDH1812B175TF\*\*\*, SMDH2016B080TF\*\*\*,  
 SMDH2016B260TF\*\*\*, SMDH2920B100TF\*\*\*,  
 SMDH2920B120TF\*\*\*, SMDH2920B150TF\*\*\*,  
 SMDH2920B185TF\*\*\* series

\* can A to Z or 0 to 9, or /, or blank, means Packing, Marking or Customer code.

## Parameters:

Type:	PTC thermistor for current limitation
Upper/Lower category temperature (UCT/LCT):	125°C/-40°C
Operating temperature range at maximum voltage:	0-40°C
Climatic category:	40/125/21
Maximum voltage (Umax):	See below pages
Cycle life testing:	I <sub>max</sub> ≤ 100 A, 6000 cycles at 5I <sub>hold</sub> , No burning or arcing, no specification for DR/R.
Trip endurance:	1000h, No burning or arcing, no specification for DR/R.
Cold environmental electrical cycling:	1000 cycles, 0°C, No burning or arcing, no specification for DR/R.

**Tested according to:** EN 62319-1:2005  
 EN 62319-1-1:2005

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## Parameters:

Model	I <sub>hold</sub> @25°C (A)	I <sub>trip</sub> @25°C (A)	Time to trip		U <sub>max</sub> (Vdc)	I <sub>max</sub> (A)	I <sub>res</sub> (mA)	Pd (W)	R25	
			Current	Time					R <sub>min</sub>	R <sub>max</sub>
			(A)	(Sec)					(Ω)	(Ω)
SMDH0805B010TF***	0.10	0.60	2.5	1.5	16	40	60	1.0	0.70	10.0
SMDH1206B010TF***	0.10	0.35	1.0	0.1	30	10	60	0.8	0.70	10.0
SMDH1206B016TF***	0.16	0.80	8.0	0.1	30	20	50	0.9	0.60	6.00
SMDH1206B030TF***	0.30	0.82	8.0	0.1	24	10	50	1.0	0.10	1.95
SMDH1206B035TF***	0.35	1.15	3.5	0.2	16	50	50	1.0	0.15	1.60
SMDH1206B035TF/30***	0.35	1.20	8.0	0.1	30	20	50	1.2	0.10	2.20
SMDH1206B050TF***	0.50	2.50	8.0	0.1	24	20	70	1.7	0.10	1.60
SMDH1206B075TF***	0.75	2.00	8.0	0.1	6	10	180	1.1	0.05	0.40
SMDH1210B010TF***	0.10	0.55	1.0	0.2	30	10	60	0.9	0.50	10.0
SMDH1210B050TF***	0.50	1.50	8.0	0.05	6	10	110	1.1	0.08	0.75
SMDH2920B125TF***	1.25	2.50	8.0	0.5	24	20	50	2.0	0.05	0.29
SMDH0805B005TF***	0.05	0.25	0.5	0.08	16	40	0.03	0.6	1.50	38.00
SMDH0805B016TF***	0.16	0.68	8.0	0.1	16	40	0.05	1.0	0.60	6.00
SMDH0805B020TF***	0.20	0.70	8.0	0.1	16	40	0.05	0.9	0.35	5.00
SMDH0805B035TF***	0.35	1.10	8.0	0.1	16	40	0.05	0.9	0.15	3.00
SMDH0805B050TF***	0.50	1.70	8.0	0.1	16	40	0.05	0.9	0.10	1.60
SMDH1206B005TF***	0.05	0.25	1.5	0.25	30	20	0.04	0.8	1.50	35.00
SMDH1206B012TF***	0.12	0.45	1.0	0.2	30	10	0.06	0.6	0.60	10.50
SMDH1206B020TF***	0.20	0.70	1.0	0.6	24 / 30	60	0.06	0.6	0.50	5.60
SMDH1206B025TF***	0.25	0.81	8.0	0.08	16	20	0.04	0.6	0.35	4.30
SMDH1206B110TF***	1.10	5.20	8.0	0.1	6	100	0.08	0.6	0.03	0.45
SMDH1206B125TF***	1.25	3.75	8.0	0.2	6	100	0.08	0.6	0.02	0.25
SMDH1206B150TF***	1.50	4.50	8.0	0.3	6	100	0.08	0.6	0.01	0.30
SMDH1206B175TF***	1.75	7.00	8.0	1.0	6	100	0.08	0.7	0.01	0.25
SMDH1206B200TF***	2.00	6.00	8.0	1.0	6	100	0.08	0.7	0.01	0.25
SMDH1210B016TF***	0.16	0.80	8.0	0.1	30	20	0.04	1.0	0.40	6.00
SMDH1210B020TF***	0.20	1.00	8.0	0.1	30	20	0.04	1.0	0.30	5.00
SMDH1210B035TF***	0.35	1.75	8.0	0.1	30	20	0.04	1.0	0.15	2.20
SMDH1210B075TF***	0.75	3.75	5.0	1.0	16	20	0.04	1.0	0.07	1.00
SMDH1210B110TF***	1.10	5.50	5.0	1.0	9	20	0.08	1.0	0.06	0.50
SMDH1210B125TF***	1.25	3.75	8.0	5.0	9	40	0.08	1.5	0.03	0.50
SMDH1210B150TF***	1.50	4.50	8.0	5.0	9	40	0.08	1.5	0.02	0.25
SMDH1812B014TF***	0.14	0.66	8.0	0.1	42	10	0.05	1.2	0.12	7.50
SMDH1812B020TF***	0.20	1.00	8.0	0.1	42	40	0.05	1.2	0.10	4.50
SMDH1812B035TF***	0.35	1.75	8.0	0.1	36	40	0.05	1.2	0.10	3.00
SMDH1812B050TF***	0.50	2.50	8.0	0.1	30	40	0.05	1.2	0.09	2.00
SMDH1812B075TF***	0.75	3.75	8.0	5.0	30	40	0.05	1.5	0.08	0.95
SMDH1812B110TF***	1.10	5.50	8.0	5.0	16 / 33	40	0.06	1.5	0.045	0.55
SMDH1812B125TF***	1.25	6.25	8.0	5.0	9	40	0.08	1.5	0.03	0.40
SMDH1812B150TF***	1.50	6.00	10.0	5.0	9	40	0.08	1.5	0.013	0.30
SMDH1812B175TF***	1.75	7.00	10.0	5.0	9	40	0.08	1.5	0.012	0.20
SMDH2016B080TF***	0.80	2.00	8.0	9.0	16	70	0.09	1.5	0.05	0.55
SMDH2016B260TF***	2.60	6.00	8.0	5.0	24	40	0.10	1.5	0.01	0.25
SMDH2920B100TF***	1.00	2.20	8.0	2.0	33	20	0.06	2.2	0.05	0.35
SMDH2920B120TF***	1.20	2.30	8.0	2.0	16 / 33 / 42	10	0.06	2.2	0.05	0.46
SMDH2920B150TF***	1.50	3.00	8.0	2.0	33	20	0.08	2.2	0.02	0.35
SMDH2920B185TF***	1.85	3.70	8.0	2.5	33	40	0.09	1.5	0.02	0.20

Remark:

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