



Product Service

CERTIFICATE

No. B 096048 0012 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

Test report no.: 64105213080002

Valid until: 2029-05-29

Date, 2024-05-31

(Martin Ma)



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Model(s): SMD0805 series, SMD1812 series, SMD1206 series, SMD1210 series, SMD2016 series, SMD2920 series, SMD0402 series, SMD0603 series, SMD0805 series, SMD1812 series, SMD1206 series, SMD1210 series, SMD2920 series

Parameters:

Type:	PTC thermistor for current limitation
Upper/Lower category temperature (UCT/LCT):	85°C/-40°C
Operating temperature range at maximum voltage:	0-40°C
Climatic category:	40/85/21
Maximum voltage (U _{max}):	See below pages
Cycle life testing:	I _{max} ≤ 100 A, 6000 cycles at 5I _{hold} , No burning or arcing, no specification for ΔR/R.
Trip endurance:	1000h, No burning or arcing, no specification for ΔR/R.
Cold environmental electrical cycling:	1000 cycles, 0°C, No burning or arcing, no specification for ΔR/R.

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

Model	Alternative model name	I _{hold} @25°C (A)	I _{trip} @25°C (A)	Time to trip		U _{max} (Vdc)	I _{max} (A)	I _{res} (A)	Pd (W)	R25	
				Current (A)	Time (Sec)					R _{min}	R _{max}
										(Ω)	(Ω)
SMD0805B005T F***	SMD0805P005T F***	0.05	0.15	0.25	1.5	30	40	0.050	0.75	3.60	20.0
SMD0805B010T F/24***	SMD0805P010T F/24***	0.10	0.30	0.5	1.5	24	100	0.021	0.5	1.50	6.00
SMD1206B012T F/48***	SMD1206P012T F/48***	0.125	0.29	1.0	0.2	48	10	0.013	0.6	1.5	6.0
SMD1206B020T F/30***	SMD1206P020T F/30***	0.20	0.42	8.0	0.1	30	100	0.020	0.6	0.65	2.60
SMD1206B035T F/30***	SMD1206P035T F/30***	0.35	0.75	8.0	0.1	30	100	0.020	0.6	0.30	1.20
SMD1206B050T F/24***	SMD1206P050T F/24***	0.50	1.00	8.0	0.1	24	100	0.025	0.6	0.15	0.75
SMD1206B110T F/16***	SMD1206P110T F/16***	1.10	2.20	8.0	0.1	16	100	0.050	0.8	0.06	0.21
SMD1210B010T F/60***	SMD1210P010T F/60***	0.10	0.25	0.5	1.5	60	10	0.01	0.6	1.50	15.0
SMD1210B035T F/30***	SMD1210P035T F/30***	0.35	0.70	8.0	0.2	30	40	0.02	0.6	0.32	1.30
SMD1210B050T F/30***	SMD1210P050T F/30***	0.50	1.00	8.0	0.15	30	40	0.02	0.6	0.22	0.90
SMD1812B010T F/60***	SMD1812P010T F/60***	0.10	0.30	0.5	1.5	60	10	0.013	0.8	1.60	15.0
SMD1812B030T F/60***	SMD1812P030T F/60***	0.30	0.60	8.0	0.1	60	100	0.013	0.8	0.25	3.0
SMD1812B035T F/60***	SMD1812P035T F/60***	0.35	0.75	8.0	0.15	60	40	0.017	1.0	0.40	1.7
SMD1812B050T F/60***	SMD1812P050T F/60***	0.50	1.00	8.0	0.15	60	10	0.013	0.8	0.15	1.0
SMD2016B150T F/33***	SMD2016P150T F/33***	1.50	3.00	8.0	1.0	33	40	0.061	2.0	0.05	0.18
SMD2016B260T F/24***	SMD2016P260T F/24***	2.60	5.00	8.0	5.0	24	40	0.067	1.6	0.025	0.075
SMD2016B300T F***	SMD2016P300T F***	3.00	5.00	8.0	10.0	16	40	0.100	1.6	0.015	0.048
SMD2016B500T F***	SMD2016P500T F***	5.00	10.00	25.0	2.0	6	100	0.600	2.0	0.005	0.025
SMD2920B110T F/60***	SMD2920P110T F/60***	1.10	2.20	8.0	0.5	60	20	0.065	2.0	0.120	0.410
SMD2920B330T F***	SMD2920P330T F***	3.30	5.50	8.0	5.0	24	40	0.083	2.0	0.015	0.055
SMD2920B600T F/12***	SMD2920P600T F/12***	6.00	12.00	30.0	2.0	12	50	0.167	2.0	0.004	0.020
SMD2920B700T F/12***	SMD2920P700T F/12***	7.00	14.00	35.0	2.0	12	50	0.167	2.0	0.0035	0.0180
SMD&0402B010 TF***	-	0.10	0.30	0.50	1.00	6	40	0.04	0.5	0.15	2.00
SMD&0402B020 TF***	-	0.20	0.50	1.00	1.00	6	40	0.04	0.5	0.10	1.25
SMD&0402B035 TF***	-	0.35	0.70	8.00	0.10	6	40	0.04	0.5	0.05	0.70
SMD&0402B050 TF***	-	0.50	1.00	8.00	0.10	6	40	0.04	0.5	0.04	0.40
SMD&0402B075 TF***	-	0.75	1.50	8.00	0.1	6	40	0.04	0.5	0.03	0.30
SMD&0402B100 TF***	-	1.00	2.00	8.00	0.2	6	40	0.04	0.5	0.03	0.25
SMD&0603B001 TF***	-	0.01	0.03	0.20	1.00	60	40	0.02	0.5	12.00	130.00

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SMD&0603B002 TF***	-	0.02	0.06	0.20	1.00	60	40	0.02	0.5	9.00	80.0
SMD&0603B003 TF***	-	0.03	0.09	0.20	1.00	30	40	0.04	0.5	3.50	50.0
SMD&0603B005 TF***	-	0.05	0.15	0.50	1.00	15	40	0.05	0.5	1.80	30.0
SMD&0603B008 TF***	-	0.08	0.20	0.60	1.00	15	40	0.05	0.5	1.00	15.0
SMD&0603B012 TF***	-	0.12	0.30	0.80	1.00	9	40	0.03	0.5	0.70	5.80
SMD&0603B016 TF***	-	0.16	0.40	1.00	1.00	9	40	0.03	0.5	0.60	4.20
SMD&0603B050 TF***	-	0.50	1.00	8.00	0.10	6	50	0.03	0.6	0.07	0.35
SMD&0603B075 TF***	-	0.75	1.50	8.00	0.2	6	50	0.03	0.6	0.020	0.165
SMD&0603B100 TF***	-	1.00	1.80	8.00	0.3	6	50	0.03	0.6	0.040	0.120
SMD&0603B150 TF***	-	1.50	3.00	8.00	0.5	6	50	0.02	0.6	0.007	0.080
SMD&0603B175 TF***	-	1.75	3.50	8.00	0.6	6	50	0.02	0.6	0.005	0.060
SMD&0603B200 TF***	-	2.00	4.00	8.00	1.0	6	50	0.02	0.6	0.005	0.050
SMD&0603B300 TF***	-	3.00	6.00	8.00	5.0	6	50	0.02	0.6	0.003	0.030
SMD&0805B075 TF***	-	0.75	1.50	8.00	0.2	6	50	0.02	0.6	0.040	0.150
SMD&0805B110 TF***	-	1.10	1.80	8.00	0.3	6	50	0.02	0.6	0.030	0.120
SMD&0805B150 TF***	-	1.50	3.00	8.00	0.5	6 / 12	50	0.03	0.6	0.015	0.065
SMD&0805B175 TF***	-	1.75	3.50	8.00	0.6	6	50	0.02	0.6	0.005	0.055
SMD&0805B200 TF***	-	2.00	4.00	8.00	1.0	6	50	0.02	0.6	0.005	0.045
SMD&0805B260 TF***	-	2.60	5.20	8.00	4.0	6	50	0.02	0.6	0.003	0.035
SMD&0805B300 TF***	-	3.00	6.00	8.00	5.0	6	50	0.02	0.6	0.003	0.030
SMD&0805B350 TF***	-	3.50	7.00	8.00	5.0	6	50	0.02	0.6	0.003	0.025
SMD&0805B400 TF***	-	4.00	9.00	20.00	2.0	6	50	0.02	0.6	0.003	0.018
SMD&1206B005 TF***	-	0.05	0.15	1.50	0.25	30 / 60	100	0.06	0.6	3.60	50.0
SMD&1206B010 TF***	-	0.10	0.25	1.00	0.5	60	100	0.06	0.8	1.60	15.00
SMD&1206B016 TF***	-	0.16	0.45	1.00	0.3	48	100	0.08	0.6	1.00	5.00
SMD&1206B025 TF***	-	0.25	0.50	8.00	0.08	48	10	0.06	0.6	0.35	2.50
SMD&1206B075 TF***	-	0.75	1.50	8.00	0.3	6	50	0.03	0.8	0.017	0.18
SMD&1206B110 TF***	-	1.10	2.20	8.00	0.3	6 / 12	50	0.03	0.8	0.015	0.130
SMD&1206B150 TF***	-	1.50	3.00	8.00	0.5	6 / 12	50	0.02	0.8	0.010	0.080
SMD&1206B175 TF***	-	1.75	3.50	8.00	0.4	6	50	0.02	0.8	0.005	0.030
SMD&1206B200 TF***	-	2.00	4.00	8.00	0.5	6	50	0.02	0.8	0.005	0.025

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SMD&1206B260 TF***	-	2.60	5.00	8.00	4.0	6 / 12	50	0.02	0.8	0.003	0.055
SMD&1206B300 TF***	-	3.00	6.00	8.00	4.0	6 / 12	50	0.03	0.8	0.003	0.030
SMD&1206B350 TF***	-	3.50	7.00	8.00	5.0	6 / 12	50	0.02	0.8	0.003	0.020
SMD&1206B380 TF***	-	3.80	8.00	8.00	5.0	6	50	0.02	0.8	0.002	0.018
SMD&1206B400 TF***	-	4.00	8.00	20.00	2.0	6 / 12	50	0.02	0.8	0.003	0.017
SMD&1206B450 TF***	-	4.50	9.00	22.50	2.0	6 / 12	50	0.02	0.8	0.003	0.016
SMD&1206B500 TF***	-	5.00	10.00	25.00	2.0	6 / 12	50	0.03	0.8	0.001	0.013
SMD&1206B600 TF***	-	6.00	12.00	30.00	2.0	6	50	0.02	0.8	0.001	0.012
SMD&1206B700 TF***	-	7.00	14.00	35.00	2.0	6	50	0.02	0.8	0.001	0.011
SMD&1210B005 TF***	-	0.05	0.15	1.50	0.25	60	10	0.06	0.6	3.60	50.00
SMD&1210B175 TF***	-	1.75	3.50	8.00	2.5	6	50	0.02	0.8	0.006	0.040
SMD&1210B200 TF***	-	2.00	4.00	8.00	3.0	6	50	0.02	0.8	0.005	0.024
SMD&1210B260 TF***	-	2.60	5.00	8.00	4.0	6	50	0.02	0.8	0.003	0.020
SMD&1210B300 TF***	-	3.00	6.00	15.00	2.0	6	50	0.03	0.8	0.003	0.020
SMD&1210B350 TF***	-	3.50	7.00	17.50	2.0	6	50	0.03	0.8	0.003	0.018
SMD&1210B380 TF***	-	3.80	8.00	8.00	5.0	6	50	0.03	1.0	0.002	0.016
SMD&1210B400 TF***	-	4.00	8.00	8.00	5.0	6	50	0.03	1.0	0.001	0.014
SMD&1210B450 TF***	-	4.50	9.00	22.50	2.0	6/12	50	0.03	1.2	0.001	0.014
SMD&1210B500 TF***	-	5.00	10.00	25.00	2.0	6/12	50	0.05	1.2	0.001	0.012
SMD&1210B550 TF***	-	5.50	11.00	27.50	2.0	6	50	0.05	1.2	0.001	0.011
SMD&1210B600 TF***	-	6.00	12.00	30.00	2.0	6	50	0.05	1.2	0.001	0.010
SMD&1210B900 TF***	-	9.00	18.00	45.00	2.0	6	50	0.09	1.4	0.001	0.006
SMD&1812B030 TF***	-	0.30	0.60	8.00	0.1	30	100	0.05	0.8	0.25	3.00
SMD&1812B125 TF***	-	1.25	2.50	8.00	0.4	33	100	0.05	0.5	0.020	0.140
SMD&1812B190 TF***	-	1.90	4.90	9.50	4.5	6	50	0.05	1.0	0.003	0.025
SMD&1812B200 TF***	-	2.00	4.00	8.00	2.0	30	40	0.05	0.8	0.020	0.100
SMD&1812B260 TF***	-	2.60	6.00	13.00	2.0	6	50	0.05	1.0	0.003	0.024
SMD&1812B270 TF***	-	2.70	6.20	13.50	2.0	6	50	0.05	1.0	0.003	0.022
SMD&1812B300 TF***	-	3.00	6.00	15.00	2.0	6 / 16 / 24	50	0.05	2.0	0.001	0.030
SMD&1812B350 TF***	-	3.50	8.10	8.00	5.0	6	50	0.05	1.0	0.003	0.020
SMD&1812B370 TF***	-	3.70	9.10	18.50	2.0	6	50	0.06	1.0	0.003	0.018



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SMD&2920B300 TF***	-	3.00	5.00	8.0	20.0	30	40	0.06	1.5	0.012	0.048
SMD&2920B330 TF***	-	3.30	5.50	8.0	5.0	30	40	0.06	2.0	0.015	0.055
SMD&2920B500 TF***	-	5.00	10.00	25.00	2.0	24	50	0.06	2.2	0.001	0.018
SMD&2920B600 TF***	-	6.00	12.00	30.00	2.0	24	50	0.06	2.5	0.001	0.012
SMD&2920B700 TF***	-	7.00	14.00	35.00	2.0	6/24	50	0.06	2.5	0.001	0.010
Remark: & can A to Z or 0 to 9, or blank, means internal identifier. * can A to Z or 0 to 9, or /, or blank, means Packing, Marking or Customer code.											

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