

DATA SHEET

POSITIVE TEMPERATURE COEFFICIENT AC/DC POWER SUPPLY

SMD1812 Series

RoHS compliant & Halogen free



Product specification— November 05, 2024 V.5



Positive Temperature Coefficient (PTC) Data Sheet

Description

The 1812 series provides surface mount resettable overcurrent protection with holding current from 0.1A to 3.0A. This series offers complete portfolio in terms of holding current and working voltage, and is suitable for wide range of application.



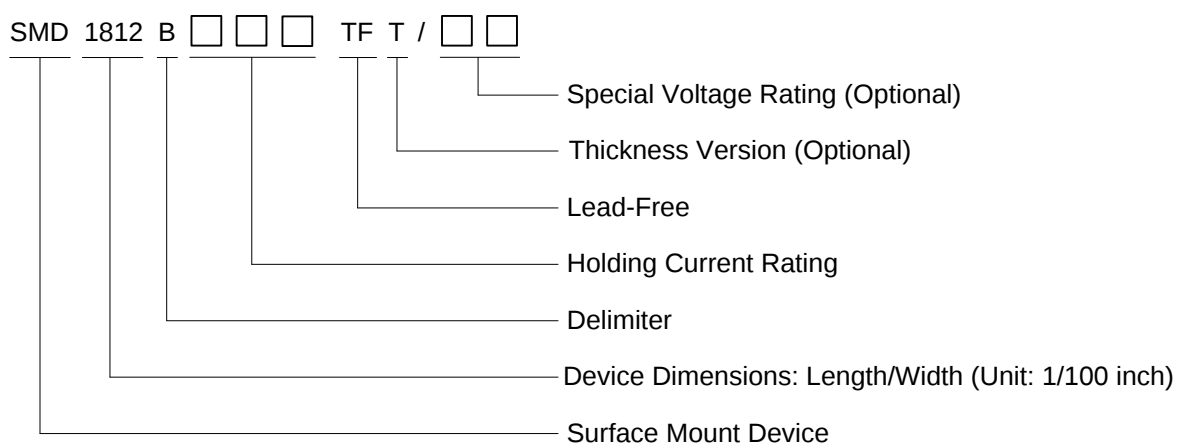
Features

- RoHS compliant and lead-free
- Fast response to fault current
- UL/CUL/ TUV/ RoHS/Halogen Free
- Low profile
- Compatible with high temperature solders
- Compact design saves board space

Applications

- USB hubs, ports and peripherals
- Set-top-box and HDMI
- Game console port protection
- Motherboard USB & IEEE 1394 protection
- Optical disk drives
- General electronics

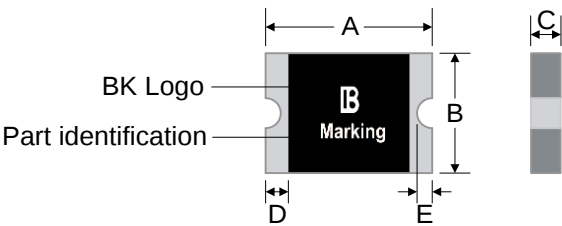
Part Number Code and Marking



Part Number	Marking	Part Number	Marking	Part Number	Marking
SMD1812B010TF	010	SMD1812B050TF	050	SMD1812B110TF/24	1124
SMD1812B010TF/60	0160	SMD1812B050TF/30	0530	SMD1812B110TF/33	1133
SMD1812B014TF	014	SMD1812B050TF/60	0560	SMD1812B125TF/16	125
SMD1812B020TF	020	SMD1812B075TF	075	SMD1812B125TF/6,4L	125
SMD1812B020TF-J	020.J	SMD1812B075TF/24	0724	SMD1812B125TF/33	1233
SMD1812B030TF/60	0360	SMD1812B075TF/33	0733	SMD1812B150TF/8	150
SMD1812B035TF/30	0330	SMD1812B110TF	110	SMD1812B150TF/12	1512
SMD1812B035TF/60	0360	SMD1812B110TF/16	1116	SMD1812B150TF/16	1516

Part Number	Marking	Part Number	Marking	Part Number	Marking
SMD1812B150TF/24	1524	SMD1812B200TF/12	2012	SMD1812B260TF/12	2612
SMD1812B160TF/8(4L)	160	SMD1812B200TF/16	2016	SMD1812B260TF/16	2616
SMD1812B160TF/16	1616	SMD1812B200TF/30	2030	SMD1812B300TFT	30
SMD1812B200TFT	20	SMD1812B260TFT	260	SMD1812B300TF/16	3016

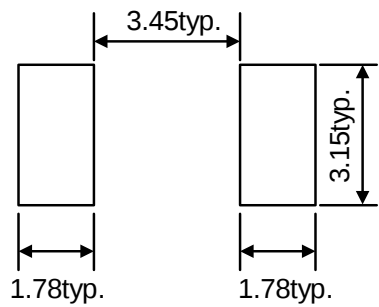
Dimensions and PAD-SIZE



Part Number	A		B		C		D		E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
SMD1812B010TF	4.37	4.73	3.07	3.41	0.75	1.25	0.30	1.20	0.15	0.65
SMD1812B010TF/60	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.15	0.65
SMD1812B014TF	4.37	4.73	3.07	3.41	0.75	1.25	0.30	1.20	0.15	0.65
SMD1812B020TF	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.15	0.65
SMD1812B020TF-J	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.15	0.65
SMD1812B030TF/60	4.37	4.73	3.07	3.41	0.50	1.00	0.30	1.20	0.15	0.65
SMD1812B035TF/30	4.37	4.73	3.07	3.41	0.50	1.00	0.30	1.20	0.15	0.65
SMD1812B035TF/60	4.37	4.73	3.07	3.41	0.45	0.95	0.30	1.20	0.15	0.65
SMD1812B050TF	4.37	4.73	3.07	3.41	0.50	1.00	0.30	1.20	0.15	0.50
SMD1812B050TF/30	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.15	0.65
SMD1812B050TF/60	4.37	4.73	3.07	3.41	0.90	1.40	0.30	1.20	0.15	0.65
SMD1812B075TF	4.37	4.73	3.07	3.41	0.50	1.00	0.30	1.20	0.15	0.50
SMD1812B075TF/24	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.15	0.65
SMD1812B075TF/33	4.37	4.73	3.07	3.41	1.05	1.55	0.30	1.20	0.15	0.65
SMD1812B110TF	4.37	4.73	3.07	3.41	0.30	0.80	0.30	1.20	0.15	0.65
SMD1812B110TF/16	4.37	4.73	3.07	3.41	0.75	1.25	0.30	1.20	0.15	0.65
SMD1812B110TF/24	4.37	4.73	3.07	3.41	0.90	1.70	0.30	1.20	0.15	0.65
SMD1812B110TF/33	4.37	4.73	3.07	3.41	0.90	1.70	0.30	1.20	0.15	0.65
SMD1812B125TF/16	4.37	4.73	3.07	3.41	0.70	1.20	0.30	1.20	0.15	0.65
SMD1812B125TF/6,4L	4.37	4.73	3.07	3.41	0.25	0.75	0.30	1.20	0.15	0.65
SMD1812B125TF/33	4.37	4.73	3.07	3.41	1.10	1.60	0.30	1.20	0.15	0.65
SMD1812B150TF/8	4.37	4.73	3.07	3.41	0.25	0.75	0.30	1.20	0.15	0.65

Part Number	A		B		C		D		E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
SMD1812B150TF/12	4.37	4.73	3.07	3.41	0.75	1.25	0.30	1.20	0.15	0.65
SMD1812B150TF/16	4.37	4.73	3.07	3.41	0.90	1.70	0.30	1.20	0.15	0.65
SMD1812B150TF/24	4.37	4.73	3.07	3.41	1.25	2.05	0.30	1.20	0.15	0.65
SMD1812B160TF/8(4L)	4.37	4.73	3.07	3.41	0.40	0.90	0.30	1.20	0.15	0.65
SMD1812B160TF/16	4.37	4.73	3.07	3.41	0.90	1.70	0.30	1.20	0.15	0.65
SMD1812B200TFT	4.37	4.73	3.07	3.41	0.50	1.00	0.30	1.20	0.15	0.65
SMD1812B200TF/12	4.37	4.73	3.07	3.41	1.25	2.05	0.30	1.20	0.15	0.65
SMD1812B200TF/16	4.37	4.73	3.07	3.41	0.50	1.00	0.30	1.20	0.15	0.65
SMD1812B200TF/30	4.37	4.73	3.07	3.41	1.05	1.55	0.30	1.20	0.15	0.65
SMD1812B260TFT	4.37	4.73	3.07	3.41	0.55	1.05	0.30	1.20	0.15	0.65
SMD1812B260TF/12	4.37	4.73	3.07	3.41	1.25	2.05	0.30	1.20	0.15	0.65
SMD1812B260TF/16	4.37	4.73	3.07	3.41	0.93	1.73	0.30	1.20	0.15	0.65
SMD1812B300TFT	4.37	4.73	3.07	3.41	0.85	1.65	0.30	1.20	0.15	0.65
SMD1812B300TFT/16	4.37	4.73	3.07	3.41	0.65	1.55	0.30	1.20	0.15	0.65

Recommended Pad Layout (mm)



Electrical Characteristics

Part Number	I _{hold} (A)	I _{trip} (A)	V _{max} (Vdc)	I _{max} (A)	P _d typ. (W)	Maximum Time To Trip		Resistance	
						Time (Sec.)	Current (A)	R _{min} (Ω)	R _{1max} (Ω)
SMD1812B010TF	0.10	0.30	30	100	0.8	1.50	0.5	1.60	15.0
SMD1812B010TF/60	0.10	0.30	60	10	0.8	1.50	0.5	1.60	15.0
SMD1812B014TF	0.14	0.34	60	10	0.8	0.15	1.5	1.50	6.0
SMD1812B020TF	0.20	0.40	30	100	0.8	0.02	8.0	0.80	5.0
SMD1812B020TF-J	0.20	0.40	60	40	0.8	2.00	1.0	0.70	5.0
SMD1812B030TF/60	0.30	0.60	60	100	0.8	0.10	8.0	0.25	3.0
SMD1812B035TF/30	0.35	0.75	30	40	0.8	0.15	8.0	0.40	1.7

Part Number	I _{hold} (A)	I _{trip} (A)	V _{max} (V _{DC})	I _{max} (A)	P _{d typ.} (W)	Maximum Time To Trip		Resistance	
						Time (Sec.)	Current (A)	R _{min} (Ω)	R _{I max} (Ω)
SMD1812B035TF/60	0.35	0.75	60	40	1.0	0.15	8.0	0.40	1.7
SMD1812B050TF	0.50	1.00	15	100	0.8	0.15	8.0	0.15	1.0
SMD1812B050TF/30	0.50	1.00	30	100	0.8	0.15	8.0	0.15	1.0
SMD1812B050TF/60	0.50	1.00	60	10	1.5	0.15	8.0	0.15	1.0
SMD1812B075TF	0.75	1.50	13.2	100	0.8	0.20	8.0	0.10	0.45
SMD1812B075TF/24	0.75	1.50	24	100	0.8	0.20	8.0	0.10	0.29
SMD1812B075TF/33	0.75	1.50	33	20	0.8	0.20	8.0	0.10	0.40
SMD1812B110TF	1.10	2.20	8	100	0.8	0.30	8.0	0.04	0.21
SMD1812B110TF/16	1.10	1.95	16.0	100	0.8	0.30	8.0	0.06	0.18
SMD1812B110TF/24	1.10	1.95	24.0	20	0.8	0.50	8.0	0.06	0.20
SMD1812B110TF/33	1.10	1.95	33.0	20	0.8	0.50	8.0	0.06	0.20
SMD1812B125TF/16	1.25	2.50	16.0	100	0.8	0.40	8.0	0.05	0.14
SMD1812B125TF/6,4L	1.25	2.50	6.0	100	0.8	0.40	8.0	0.05	0.14
SMD1812B125TF/33	1.25	2.50	33	100	0.8	0.4	8.0	0.02	0.14
SMD1812B150TF/8	1.50	3.00	8.0	100	0.8	0.30	8.0	0.04	0.12
SMD1812B150TF/12	1.50	3.00	12.0	100	0.8	0.50	8.0	0.040	0.120
SMD1812B150TF/16	1.50	2.80	16.0	100	0.8	0.50	8.0	0.040	0.120
SMD1812B150TF/24	1.50	3.00	24.0	20	0.8	1.50	8.0	0.040	0.120
SMD1812B160TF/8(4L)	1.60	2.80	8.0	100	0.8	0.30	8.0	0.030	0.100
SMD1812B160TF/16	1.60	2.80	16.0	100	0.8	0.80	8.0	0.030	0.100
SMD1812B200TFT	2.00	3.50	8.0	100	0.8	2.00	8.0	0.020	0.070
SMD1812B200TF/12	2.00	3.50	12.0	100	1.0	2.00	8.0	0.020	0.075
SMD1812B200TF/16	2.00	3.50	16.0	100	1.0	2.00	8.0	0.020	0.075
SMD1812B200TF/30	2.00	4.00	30	40	0.8	2.00	8.0	0.020	0.09
SMD1812B260TFT	2.60	5.00	8.0	100	0.8	2.50	8.0	0.015	0.047
SMD1812B260TF/12	2.60	5.00	12.0	100	0.8	5.00	8.0	0.015	0.055
SMD1812B260TF/16	2.60	5.00	16.0	100	1.2	5.00	8.0	0.015	0.050
SMD1812B300TFT	3.00	5.00	6.0	100	0.8	4.00	8.0	0.012	0.040
SMD1812B300TF/16	3.00	5.00	16	100	0.8	4.0	8.0	0.01	0.045

Note on Electrical Characteristics

■ Vocabulary

- I_{hold} = Hold current: maximum current device will pass without tripping in 23°C still air.
- I_{trip} = Trip current: minimum current at which the device will trip in 23°C still air.
- V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max})
- I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max})
- $P_{d\ typ.}$ = Typical power dissipated from device when in the tripped state at 23°C still air.
- R_{min} = Minimum resistance of device in initial (un-soldered) state.
- R_{1max} = Maximum resistance of device at 23°C measured one hour after tripping or reflow soldering of 260°C for 20 sec.

■ Value specified is determined by using the PWB with 0.090"×1.5oz copper traces.

■ Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Polymeric PTC Selecting Guide

■ Determine the following operating parameters for the circuits:

- Normal operating current (I_{hold})
- Maximum interrupt current (I_{max})
- Maximum circuit voltage (V_{max})
- Normal operating temperature surrounding device (min°C/max°C)

■ Select the device from factor and dimension suitable for the application

■ Compare the maximum rating for V_{max} and I_{max} of the PPTC device with the circuit in application and make sure the circuit's requirement does not exceed the device rating.

■ Check that PPTC device's trip time (time-to-trip) will protect the circuit.

■ Verify that the circuit operating temperature is within the PPTC device's normal operating temperature range.

■ Verify that performance and suitability of the chosen PPTC device in the application.

WARNING

■ Mechanical Stress

- PPTC devices will undergo a thermal expansion during fault condition. If PPTC devices are installed or placed in an application where the space between PPTC devices and the surrounding materials (e.g., covering materials, packaging materials, encapsulate materials and the like) is insufficient, it will cause an inhibiting effect upon the thermal expansion. Pressing, twisting, bending and other kinds of mechanical stress will also adversely affect the performance of the PPTC devices, and shall not be used or applied.

■ Chemical Pollutants

- Silicone-based oils, oils, solvents, gels, electrolytes, fuels, acids, and the like will adversely affect the properties of PPTC devices, and shall not be used or applied.

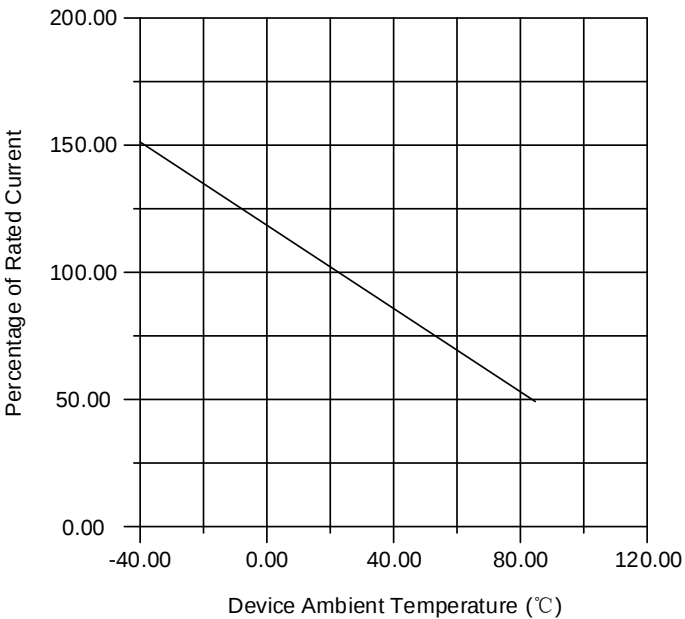
■ Electronic and Thermal Effect

- PPTC devices are secondary protection devices and are used solely for sporadic, accidental over-current or over-temperature error condition, and shall NOT be used if or when constant or repeated fault conditions (such fault conditions may be caused by, among others, incorrect pin-connection of a connector) or over-extensive trip events may occur.
- PPTC devices are different from fuses and, when a fault condition occurs, will go into high-resistance state and do not open circuit, in which case the voltage at such PPTC devices may reach a hazardous level.
- Operation over the maximum rating or other forms of improper use may cause failure, arcing, flame and/or other damage to the PPTC devices.
- Conductive material contamination, such as metal particle, may induce shortage, flame or arcing.
- Due to the inductance, the operation circuits may generate a circuit voltage (Ldi/dt) above the rated voltage of PPTC devices, which shall not be used under such circumstances.

■ General

- Customers shall evaluate and test the properties of PPTC devices independently to verify and ensure that their individual applications will be met.
- The performance of PPTC devices will be adversely affected if they are improperly used under electronic, thermal and/or mechanical procedures and/or conditions non-conformant to those recommended by manufacturer.
- Customers shall be responsible for determining whether it is necessary to have back-up, failsafe and/or fool-proof protection To avoid or minimize damage that may result from extra-ordinary, irregular function or failure of PPTC devices.
- Any and all responsibilities and liabilities are disclaimed if any item under this notice of warning is not complied with.

Thermal Derating Curve



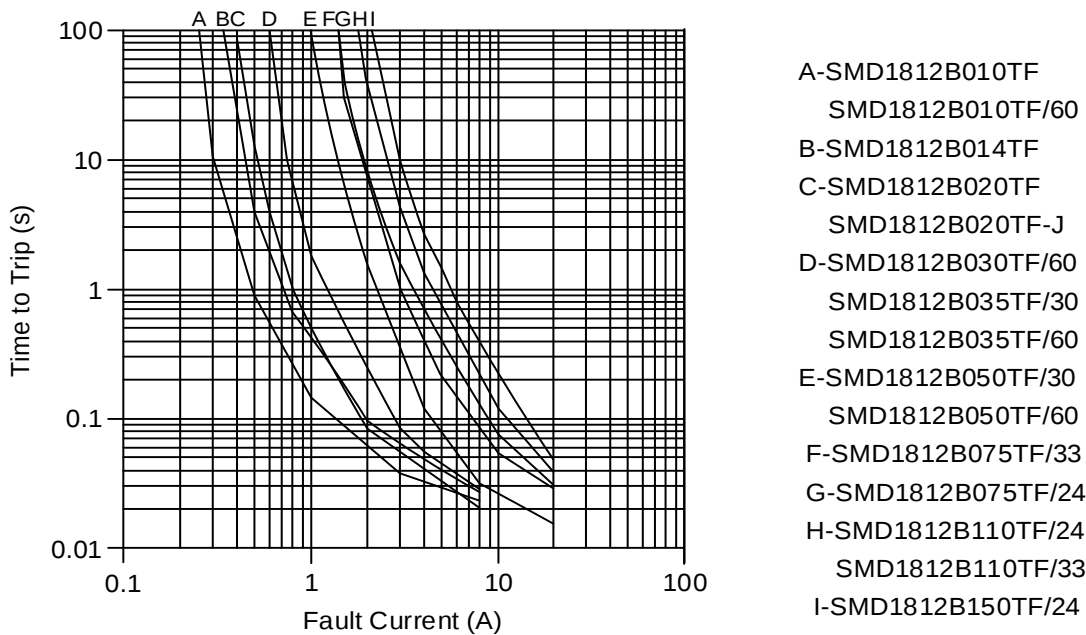
Thermal Derating Chart

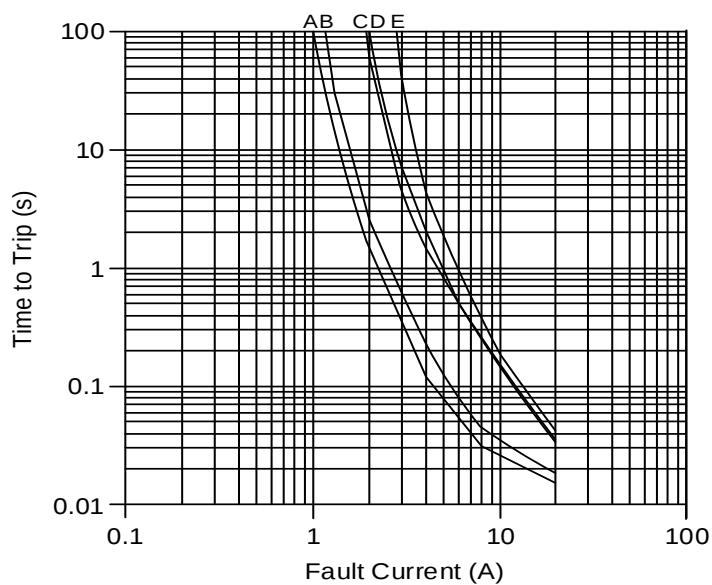
Recommended Hold Current (A) at Ambient Temperature (°C)

Part Number	Ambient Operation Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
SMD1812B010TF	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03
SMD1812B010TF/60	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03
SMD1812B014TF	0.23	0.19	0.17	0.14	0.12	0.10	0.09	0.08	0.06
SMD1812B020TF	0.29	0.26	0.23	0.20	0.17	0.15	0.14	0.12	0.10
SMD1812B020TF-J	0.29	0.26	0.23	0.20	0.17	0.15	0.14	0.12	0.10
SMD1812B030TF/60	0.44	0.39	0.35	0.30	0.26	0.23	0.21	0.18	0.15
SMD1812B035TF/30	0.50	0.45	0.40	0.35	0.30	0.26	0.24	0.20	0.16
SMD1812B035TF/60	0.50	0.45	0.40	0.35	0.30	0.26	0.24	0.20	0.16
SMD1812B050TF	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
SMD1812B050TF/30	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
SMD1812B050TF/60	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
SMD1812B075TF	1.15	1.01	0.88	0.75	0.65	0.60	0.55	0.49	0.43
SMD1812B075TF/24	1.06	0.95	0.84	0.75	0.60	0.55	0.50	0.45	0.37
SMD1812B075TF/33	1.10	1.00	0.88	0.75	0.66	0.60	0.56	0.47	0.36
SMD1812B110TF	1.59	1.43	1.26	1.10	0.95	0.87	0.80	0.71	0.60
SMD1812B110TF/16	1.58	1.43	1.27	1.10	0.95	0.85	0.77	0.71	0.58
SMD1812B110TF/24	1.55	1.40	1.25	1.10	0.93	0.83	0.73	0.63	0.50
SMD1812B110TF/33	1.55	1.40	1.25	1.10	0.93	0.83	0.73	0.63	0.50
SMD1812B125TF/6,4L	2.00	1.75	1.52	1.25	1.00	0.95	0.90	0.75	0.53
SMD1812B125TF/16	2.00	1.75	1.52	1.25	1.00	0.95	0.90	0.75	0.53
SMD1812B125TF/33	2.00	1.75	1.52	1.25	1.00	0.95	0.80	0.70	0.55

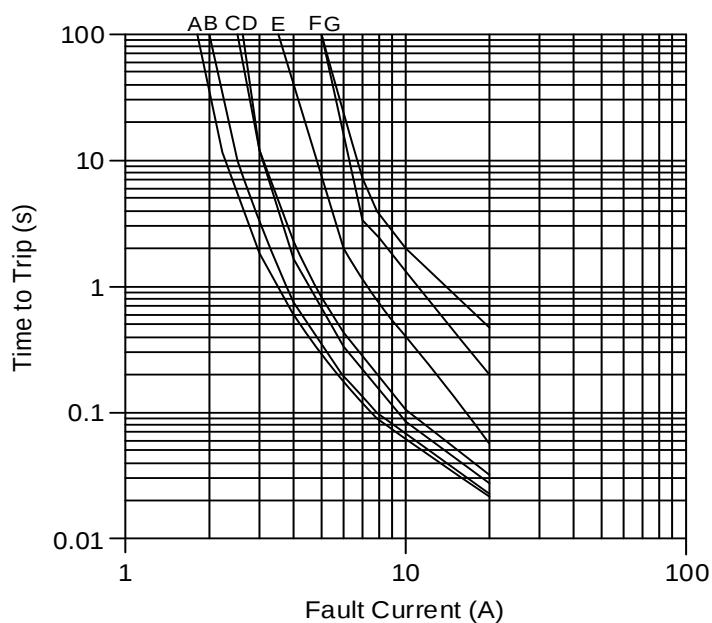
Part Number	Ambient Operation Temperature								
	-40℃	-20℃	0℃	23℃	40℃	50℃	60℃	70℃	85℃
SMD1812B150TF/8	2.06	1.93	1.79	1.50	1.28	1.10	1.02	0.80	0.68
SMD1812B150TF/12	2.04	1.88	1.68	1.50	1.25	1.10	1.00	0.80	0.60
SMD1812B150TF/16	2.04	1.88	1.68	1.50	1.25	1.10	1.00	0.80	0.60
SMD1812B150TF/24	2.05	1.87	1.67	1.50	1.25	1.08	0.95	0.77	0.60
SMD1812B160TF/8(4L)	2.20	2.06	1.91	1.60	1.36	1.17	1.09	0.85	0.72
SMD1812B160TF/16	2.20	2.06	1.91	1.60	1.36	1.17	1.09	0.85	0.72
SMD1812B200TFT	2.60	2.44	2.22	2.00	1.78	1.67	1.50	1.45	1.29
SMD1812B200TF/12	2.60	2.44	2.22	2.00	1.78	1.67	1.50	1.45	1.29
SMD1812B200TF/16	2.60	2.44	2.22	2.00	1.78	1.67	1.50	1.45	1.29
SMD1812B200TF/30	2.60	2.44	2.22	2.00	1.78	1.67	1.50	1.45	1.29
SMD1812B260TFT	3.40	3.16	3.00	2.60	2.30	2.15	2.00	1.85	1.63
SMD1812B260TF/12	3.40	3.16	3.00	2.60	2.30	2.15	2.00	1.85	1.63
SMD1812B260TF/16	3.40	3.16	3.00	2.60	2.30	2.15	2.00	1.85	1.63
SMD1812B300TFT	4.13	3.75	3.30	3.00	2.62	2.43	2.25	2.00	1.78
SMD1812B300TFT/16	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03

Average Time-Current Curve



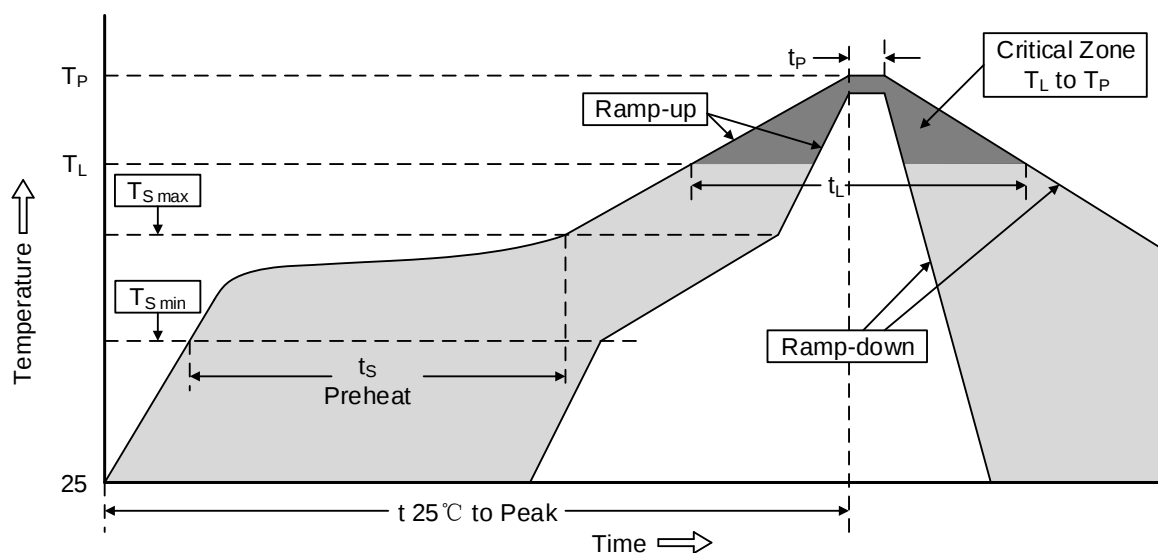


A-SMD1812B050TF
 B-SMD1812B075TF
 C-SMD1812B110TF/16
 D-SMD1812B125TF/16
 SMD1812B125TF/33
 E-SMD1812B150TF/12
 SMD1812B150TF/16



A-SMD1812B110TF
 B-SMD1812B125TF/6,4L
 C-SMD1812B150TF/8
 D-SMD1812B160TF/8(4L)
 SMD1812B160TF/16
 E-SMD1812B200TFT
 SMD1812B200TF/12
 SMD1812B200TF/16
 SMD1812B200TF/30
 F-SMD1812B260TFT
 SMD1812B260TF/12
 SMD1812B260TF/16
 G-SMD1812B300TFT
 SMD1812B300TF/16

Soldering Parameters



Profile Feature	Pb-Free Assembly
Average ramp-up rate ($T_{S\ max}$ to T_P)	3°C/second max.
Preheat -Temperature Min ($T_{S\ min}$) -Temperature Max ($T_{S\ max}$) -Time (min to max) ($T_{S\ min}$ to $T_{S\ max}$)	150°C 200°C 60-180 seconds
Time maintained above: -Temperature (T_L) -Time (t_L)	217°C 60-150 seconds
Peak Temperature (T_P)	260°C
Time within 5°C of actual Peak Temperature (t_P)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

- Recommended reflow methods: IR, vapor phase oven, hot air oven, N₂ environment for lead-free
- Recommended maximum paste thickness is 0.25mm (0.010 inch)
- Device can be cleaned using standard industry methods and solvents.

Note 1: All temperature refer to topside of the package, measured on the package body surface.

Note 2: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Environmental Specifications

Operating temperature	-40℃ to +85℃
Maximum Device Surface Temperature in Tripped State	125℃
Passive Aging	+85℃, 1000 hours ±50% typical resistance change
Humidity Aging	+85℃, 85%R.H. 1000 hours ±50% typical resistance change
Thermal Shock	MIL-STD-202, Method 107G +85℃/-40℃ 20 times -50% typical resistance change
Solvent Resistance	MIL-STD-202, Method 215 No change
Vibration	MIL-STD-883C, Method 2007.1, Condition A No change
Moisture Level Sensitivity	Level 1, J-STD-020C

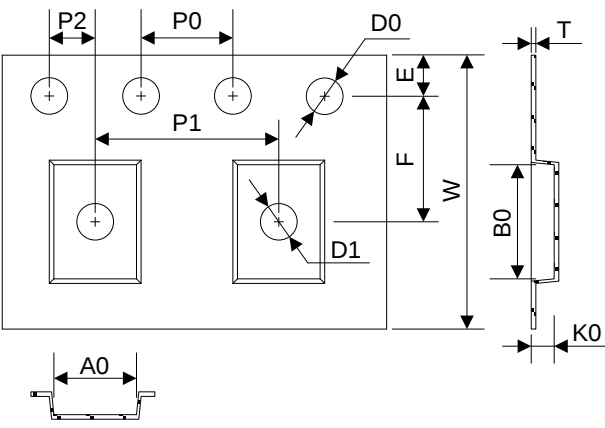
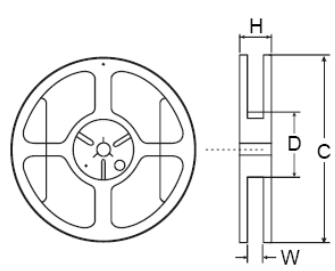
Physical Specifications

Terminal Material	Solder-Plated Copper (Solder Material: Matte Tin (Sn))
Terminal Solderability	Meets EIA Specification RS186-9E, ANSI/J-STD-002 Category 3.

Packaging

Part Number	Quantity	Part Number	Quantity	Part Number	Quantity
SMD1812B010TF	1500	SMD1812B075TF/24	1500	SMD1812B150TF/24	1000
SMD1812B010TF/60	1500	SMD1812B075TF/33	1000	SMD1812B160TF/8(4L)	2000
SMD1812B014TF	1500	SMD1812B110TF	2000	SMD1812B160TF/16	1000
SMD1812B020TF	1500	SMD1812B110TF/16	1500	SMD1812B200TFT	2000
SMD1812B020TF-J	1500	SMD1812B110TF/24	1000	SMD1812B200TF/12	1000
SMD1812B030TF/60	1500	SMD1812B110TF/33	1000	SMD1812B200TF/16	2000
SMD1812B035TF/30	2000	SMD1812B125TF/16	1500	SMD1812B200TF/30	1000
SMD1812B035TF/60	2000	SMD1812B125TF/6,4L	2000	SMD1812B260TFT	2000
SMD1812B050TF	2000	SMD1812B125TF/33	1000	SMD1812B260TF/12	1000
SMD1812B050TF/30	1000	SMD1812B150TF/8	2000	SMD1812B260TF/16	1000
SMD1812B050TF/60	1000	SMD1812B150TF/12	1500	SMD1812B300TFT	1000
SMD1812B075TF	2000	SMD1812B150TF/16	1000	SMD1812B300TFT/16	1500

© 8mm tape on 7 inch reel per EIA-481 (Equivalent to IEC286, part 3)

Tape 	Symbol	Dimensions (mm)			
		B030TF/60 B035TF/30 B035TF/60 B050TF B075TF B110TF B125TF/6,4L B150TF/8 B160TF/8(4L) B200TFT, B260TFT	B010TF B010TF/60 B014TF B020TF B020TF-J B075TF/24 B110TF/16 B125TF/16 B150TF/12 B300TF/16	B125TF/33 B200TF/30	B050TF/30, B050TF/60 B075TF/33, B110TF/24 B110TF/33, B150TF/16 B150TF/24, B160TF/16 B200TF/12, B200TF/16 B260TF/12, B260TF/16 B300TFT
	W	12.00±0.30	12.00±0.30	12.00±0.30	12.00±0.10
	F	5.50±0.05	5.50±0.05	5.50±0.05	5.50±0.05
	E	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10
	D0	1.55±0.05	1.55±0.05	1.55±0.05	1.55±0.05
	D1	1.55(MIN)	1.50±0.10	1.50±0.10	1.55(MIN)
	P0	4.00±0.10	4.00±0.10	4.00±0.08	4.00±0.10
	P1	8.00±0.10	8.00±0.10	8.00±0.10	8.00±0.10
	P2	2.00±0.05	2.00±0.05	2.00±0.05	2.00±0.05
	A0	3.58±0.10	3.50±0.10	3.58±0.10	3.58±0.10
	B0	4.93±0.10	4.85±0.10	4.93±0.10	4.93±0.10
	T	0.25±0.10	0.25±0.10	0.25±0.10	0.25±0.10
	K0	0.87±0.10	1.25±0.10	1.75±0.10	2.10±0.10
	Leader min.	390	390	390	390
	Trailer min.	160	160	160	160
Reel 	C	Φ178.0±1.0			
	D	Φ60.2±0.5			
	H	16.0±0.5			
	W	13.2±1.5			

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