

SMD1206 HF Series Surface Mount PTC Devices

SMD1206 HF Series Surface Mount PTC Devices

Description

The 1206 series provides miniature surface mount overcurrent protection with holding current from 0.05A to 2.0A. This series is suitable for wide range of applications in modern electronics where space is limited.



Features

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

Applications

- Mobile Internet Device (MID)
- Set-top-box and HDMI
- Battery PCM
- Game console port protection
- USB hubs, ports and peripherals
- General electronics



Agency Approval and Environmental Compliance

Agency	File Number	Regulation	Standard
 UL us	E201431		2011/65/EU
 TÜV Rheinland CERTIFIED <small>TYPE APPROVED REGISTRATION SHEET NUMBER: www.tuv.com DE-00000000</small>	R50099121		IEC 61249-2-21:2003

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		Agency Approval	
						Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)	 UL us	 TÜV Rheinland
SMD1206P005TF	0.05	0.15	60	10	0.6	0.25	1.50	3.600	20.000	✓	✓
SMD1206P005TF/30	0.05	0.15	30	40	0.6	0.25	1.50	3.600	20.000	✓	✓
SMD1206P010TF	0.10	0.25	60	10	0.6	0.50	1.50	1.500	10.000	✓	✓
SMD1206P010TF/30	0.10	0.25	30	40	0.6	0.50	1.50	1.500	10.000	✓	✓
SMD1206P012TF	0.125	0.29	30	100	0.6	1.00	0.20	1.500	6.000	✓	✓
SMD1206P012TF/48	0.125	0.29	48	10	0.6	1.00	0.20	1.500	6.000	✓	✓
SMD1206P016TF	0.16	0.37	30	100	0.6	1.00	0.30	1.200	4.500	✓	✓
SMD1206P020TF/24	0.20	0.42	24	100	0.6	8.00	0.10	0.650	2.600	✓	✓
SMD1206P020TF/30	0.20	0.42	30	100	0.6	8.00	0.10	0.650	2.600	✓	✓
SMD1206P025TF	0.25	0.50	16	100	0.6	8.00	0.08	0.550	2.300	✓	✓
SMD1206P025TF/24	0.25	0.55	24	100	0.6	8.00	0.08	0.550	2.300	✓	✓
SMD1206P035TF/16	0.35	0.75	16	100	0.6	8.00	0.10	0.300	1.200	✓	✓
SMD1206P035TF/30	0.35	0.75	30	100	0.6	8.00	0.10	0.300	1.200	✓	✓
SMD1206P050TF	0.50	1.00	6	100	0.6	8.00	0.10	0.150	0.700	✓	✓
SMD1206P050TF/15	0.50	1.00	15	100	0.6	8.00	0.10	0.150	0.750	✓	✓
SMD1206P050TF/24	0.50	1.00	24	100	0.6	8.00	0.10	0.150	0.750	✓	✓
SMD1206P075TFT	0.75	1.50	8	100	0.6	8.00	0.20	0.090	0.290	✓	✓
SMD1206P075TF/13.2	0.75	1.50	13.2	100	0.6	8.00	0.20	0.090	0.350	✓	✓
SMD1206P075TF/16	0.75	1.50	16	100	0.6	8.00	0.20	0.090	0.290	✓	✓
SMD1206P110TFT	1.10	2.20	8	100	0.8	8.00	0.10	0.040	0.210	✓	✓



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Electrical Characteristics

Cont'd

Part Number	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{d\ typ}$ (W)	Maximum Time To Trip		Resistance		Agency Approval	
						Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)	 US	
SMD1206P110TF/16	1.10	2.20	16	100	0.8	8.00	0.10	0.060	0.210	✓	✓
SMD1206P150TFT	1.50	3.00	8	100	0.8	8.00	0.30	0.040	0.120	✓	✓
SMD1206P175TF	1.75	3.50	6	100	0.8	8.00	0.50	0.020	0.090	✓	✓
SMD1206P200TF	2.00	3.50	6	100	0.8	8.00	1.50	0.018	0.080	✓	✓



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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 0.030" * 1.5oz copper traces.
- Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.
- Specifications are subject to change without notice.

Polymeric PTC Selecting Guide

■ Determine the following operating parameters for the circuits:

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

■ Select the device form factor and dimension suitable for the application:

- Surface Mount Device (SMD)
- Radial Leaded Device (RLD)
- Axial Leaded Device (ALD)
- DISC Device
- Other Customized Form Factors

■ 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 the 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

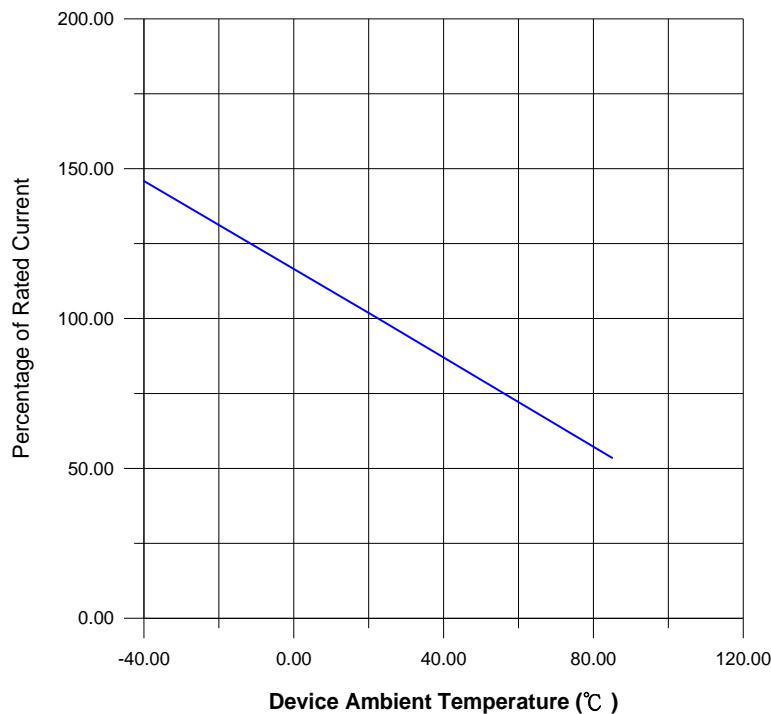
- Customers shall evaluate and test the properties of PPTC devices independently to verify and ensure that their individual applications will be met.
- The performance of PPTC devices will be adversely affected if they are improperly used under electronic, thermal and/or mechanical procedures and/or 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.



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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
SMD1206P005TF	0.076	0.068	0.060	0.050	0.043	0.039	0.034	0.030	0.023
SMD1206P005TF/30	0.076	0.068	0.060	0.050	0.043	0.039	0.034	0.030	0.023
SMD1206P010TF	0.156	0.139	0.120	0.100	0.083	0.074	0.065	0.056	0.042
SMD1206P010TF/30	0.156	0.139	0.120	0.100	0.083	0.074	0.065	0.056	0.042
SMD1206P012TF	0.18	0.16	0.14	0.125	0.10	0.09	0.08	0.07	0.05
SMD1206P012TF/48	0.18	0.16	0.14	0.125	0.10	0.09	0.08	0.07	0.05
SMD1206P016TF	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.09	0.08
SMD1206P020TF/24	0.28	0.25	0.23	0.20	0.17	0.15	0.14	0.12	0.09
SMD1206P020TF/30	0.28	0.25	0.23	0.20	0.17	0.15	0.14	0.12	0.09
SMD1206P025TF	0.37	0.33	0.29	0.25	0.22	0.20	0.17	0.15	0.12
SMD1206P025TF/24	0.37	0.33	0.29	0.25	0.22	0.20	0.17	0.15	0.12
SMD1206P035TF/16	0.50	0.45	0.40	0.35	0.30	0.27	0.24	0.21	0.15
SMD1206P035TF/30	0.50	0.45	0.40	0.35	0.30	0.27	0.24	0.21	0.15
SMD1206P050TF	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25
SMD1206P050TF/15	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25
SMD1206P050TF/24	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25
SMD1206P075TFT	1.14	1.01	0.88	0.75	0.65	0.59	0.54	0.49	0.41
SMD1206P075TF/13.2	1.14	1.01	0.88	0.75	0.65	0.59	0.54	0.49	0.41
SMD1206P075TF/16	1.14	1.01	0.88	0.75	0.65	0.59	0.54	0.49	0.41
SMD1206P110TFT	1.64	1.46	1.30	1.10	0.92	0.83	0.80	0.65	0.52
SMD1206P110TF/16	1.64	1.46	1.30	1.10	0.92	0.83	0.80	0.65	0.52



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POLYTRONICS TECHNOLOGY CORP.
RELENTLESS INNOVATION
PART NUMBER: SMD1206P005TF/30
REV. A001, DATE: 07/10/2010

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Thermal Derating Chart

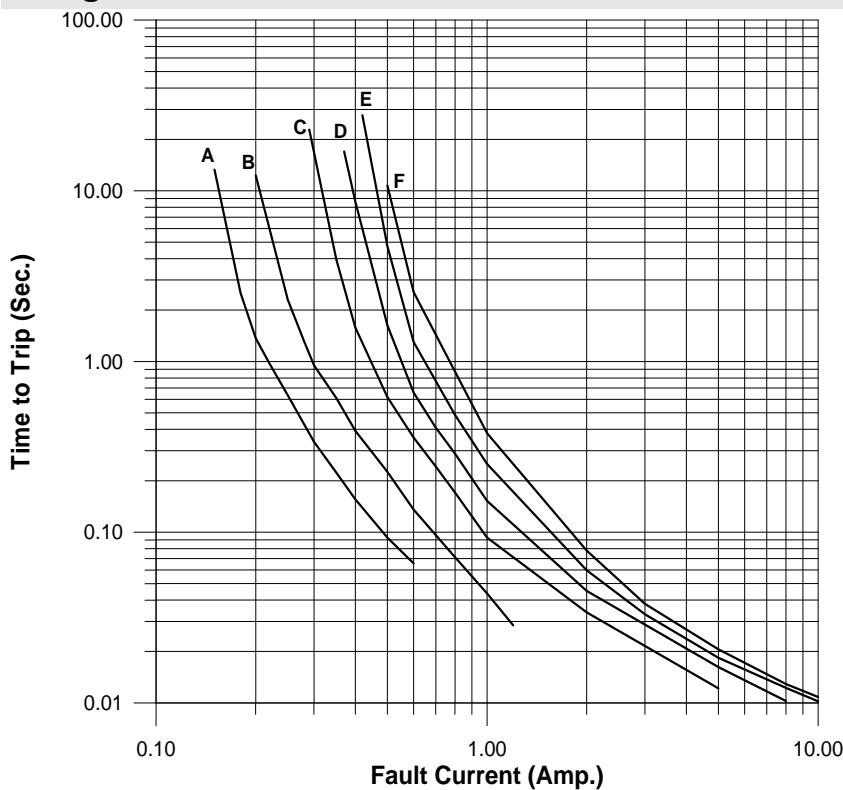
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Recommended Hold Current (A) at Ambient Temperature (°C)

Part Number	Ambient Operation Temperature								
	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
SMD1206P150TFT	2.20	1.99	1.77	1.50	1.34	1.23	1.10	1.01	0.84
SMD1206P175TF	2.50	2.25	2.00	1.75	1.55	1.45	1.35	1.25	1.10
SMD1206P200TF	2.60	2.44	2.35	2.00	1.78	1.67	1.50	1.45	1.10

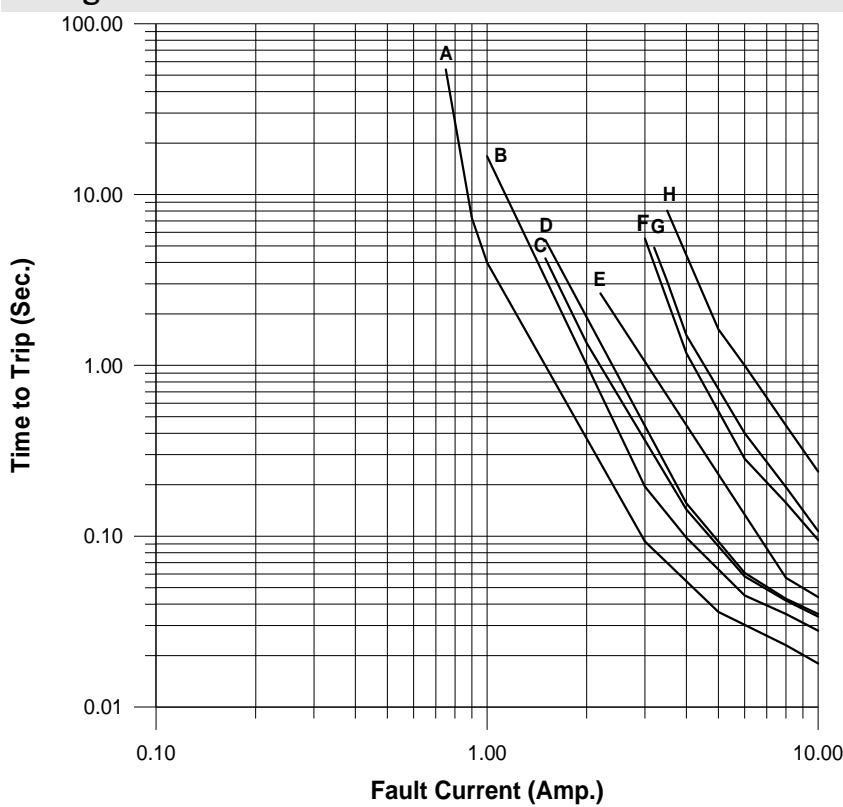
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Average Time-Current Curve



- A – SMD1206P005TF
- SMD1206P005TF/30
- B – SMD1206P010TF
- SMD1206P010TF/30
- C – SMD1206P012TF
- SMD1206P012TF/48
- D – SMD1206P016TF
- E – SMD1206P020TF/24
- SMD1206P020TF/30
- F – SMD1206P025TF
- SMD1206P025TF/24

Average Time-Current Curve

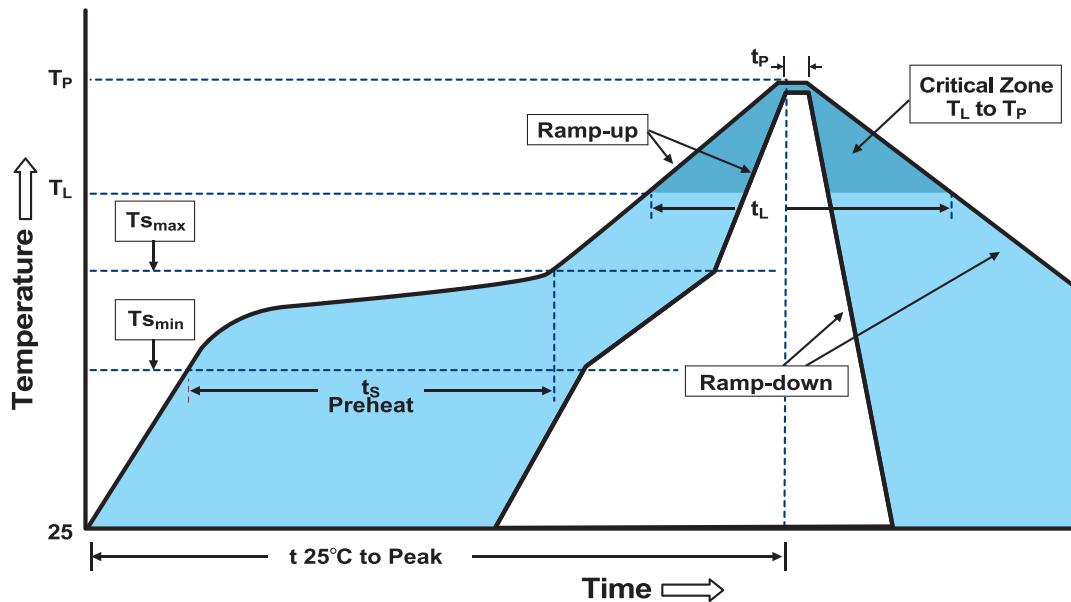


- A – SMD1206P035TF/16
- SMD1206P035TF/30
- B – SMD1206P050TF
- SMD1206P050TF/15
- C – SMD1206P075TFT
- D – SMD1206P075TF/13.2
- SMD1206P075TF/16
- E – SMD1206P110TFT
- SMD1206P110TF/16
- F – SMD1206P150TFT
- G – SMD1206P175TF
- H – SMD1206P200TF



SMD1206 HF Series Surface Mount PTC Devices

Soldering Parameters



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ($T_{s\max}$ to T_p)	3°C/second max.
Preheat	
-Temperature Min ($T_{s\min}$)	150°C
-Temperature Max ($T_{s\max}$)	200°C
-Time ($T_{s\min}$ to $T_{s\max}$)	60-180 seconds
Time maintained above:	
-Temperature (T_L)	217°C
-Time (t_L)	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.
Storage Condition	0°C ~35°C, ≤70%RH

- 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)
- Devices can be cleaned using standard industry methods and solvents.

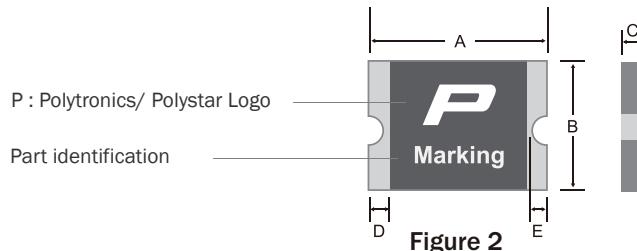
Note 1: All temperature refer to topside of the package, measured on the package body surface.

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



SMD1206 HF Series Surface Mount PTC Devices

Physical Dimensions (mm.)



Part Number	A		B		C		D		E	
	Min.	Max.								
SMD1206P005TF	3.00	3.40	1.50	1.80	0.65	1.25	0.25	0.75	0.05	0.45
SMD1206P005TF/30	3.00	3.40	1.50	1.80	0.65	1.10	0.25	0.75	0.05	0.45
SMD1206P010TF	3.00	3.40	1.50	1.80	0.65	1.25	0.25	0.75	0.05	0.45
SMD1206P010TF/30	3.00	3.40	1.50	1.80	0.65	1.10	0.25	0.75	0.05	0.45
SMD1206P012TF	3.00	3.40	1.50	1.80	0.65	1.45	0.25	0.75	0.05	0.45
SMD1206P012TF/48	3.00	3.40	1.50	1.80	0.65	1.25	0.25	0.75	0.05	0.45
SMD1206P016TF	3.00	3.40	1.50	1.80	0.65	1.45	0.25	0.75	0.05	0.45
SMD1206P020TF/24	3.00	3.40	1.50	1.80	0.50	1.00	0.25	0.75	0.05	0.45
SMD1206P020TF/30	3.00	3.40	1.50	1.80	0.50	1.00	0.25	0.75	0.05	0.45
SMD1206P025TF	3.00	3.40	1.50	1.80	0.50	1.00	0.25	0.75	0.05	0.45
SMD1206P025TF/24	3.00	3.40	1.50	1.80	0.50	1.00	0.25	0.75	0.05	0.45
SMD1206P035TF/16	3.00	3.40	1.50	1.80	0.45	0.75	0.25	0.75	0.05	0.45
SMD1206P035TF/30	3.00	3.40	1.50	1.80	0.50	1.00	0.25	0.75	0.05	0.45
SMD1206P050TF	3.00	3.40	1.50	1.80	0.45	0.75	0.25	0.75	0.05	0.45
SMD1206P050TF/15	3.00	3.40	1.50	1.80	0.45	0.75	0.25	0.75	0.05	0.45
SMD1206P050TF/24	3.00	3.40	1.50	1.80	0.75	1.25	0.25	0.75	0.05	0.45
SMD1206P075TFT	3.00	3.40	1.50	1.80	0.40	0.60	0.25	0.75	0.05	0.45
SMD1206P075TF/13.2	3.00	3.40	1.50	1.80	0.75	1.25	0.25	0.75	0.05	0.45
SMD1206P075TF/16	3.00	3.40	1.50	1.80	0.75	1.25	0.25	0.75	0.05	0.45
SMD1206P110TFT	3.00	3.40	1.50	1.80	0.30	0.60	0.25	0.75	0.05	0.45
SMD1206P110TF/16	3.00	3.40	1.50	1.80	0.75	1.25	0.25	0.75	0.05	0.45
SMD1206P150TFT	3.00	3.40	1.50	1.80	0.50	1.00	0.25	0.75	0.05	0.45
SMD1206P175TF	3.00	3.40	1.50	1.80	0.80	1.80	0.25	0.75	0.05	0.45
SMD1206P200TF	3.00	3.40	1.50	1.80	0.80	1.60	0.25	0.75	0.05	0.45



SMD1206 HF Series Surface Mount PTC Devices

Environmental Specifications

Operating Temperature	-40°C to +85 °C
Maximum Device Surface Temperature in Tripped State	125°C
Passive Aging	+85°C , 1000 hours ±5% typical resistance change
Humidity Aging	+85°C , 85%R.H. 1000 hours ±5% typical resistance change
Thermal Shock	MIL-STD-202 Method 107G +85°C / -40°C 20 times -30% typical resistance change
Solvent Resistance	MIL-STD-202, Method 215 No change
Vibration	MIL-STD-883C, Method 2007.1, Condition A No change
Moisture Sensitivity Level	Level 1, J-STD-020C

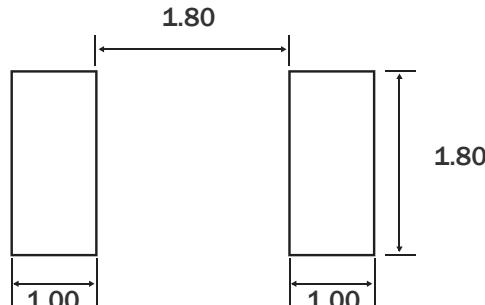


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SMD1206 HF Series Surface Mount PTC Devices

Packaging Quantity and Marking

Recommended Pad Layout (mm.)



Part Number	Marking	Quantity
SMD1206P005TF	E	3000
SMD1206P005TF/30	J	3000
SMD1206P010TF	H	3000
SMD1206P010TF/30	K	3000
SMD1206P012TF	1	3000
SMD1206P012TF/48	12	3000
SMD1206P016TF	01	3000
SMD1206P020TF/24	2	4000
SMD1206P020TF/30	23	4000
SMD1206P025TF	02	4000
SMD1206P025TF/24	02	4000
SMD1206P035TF/16	03	4000
SMD1206P035TF/30	33	3000
SMD1206P050TF	05	4000
SMD1206P050TF/15	5	4000
SMD1206P050TF/24	F	3000
SMD1206P075TFT	07	4000
SMD1206P075TF/13.2	07	3000
SMD1206P075TF/16	71	3000
SMD1206P110TFT	C	4000
SMD1206P110TF/16	1F	3000
SMD1206P150TFT	15	3000
SMD1206P175TF	17	2000
SMD1206P200TF	20	2000

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

Physical Specifications

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



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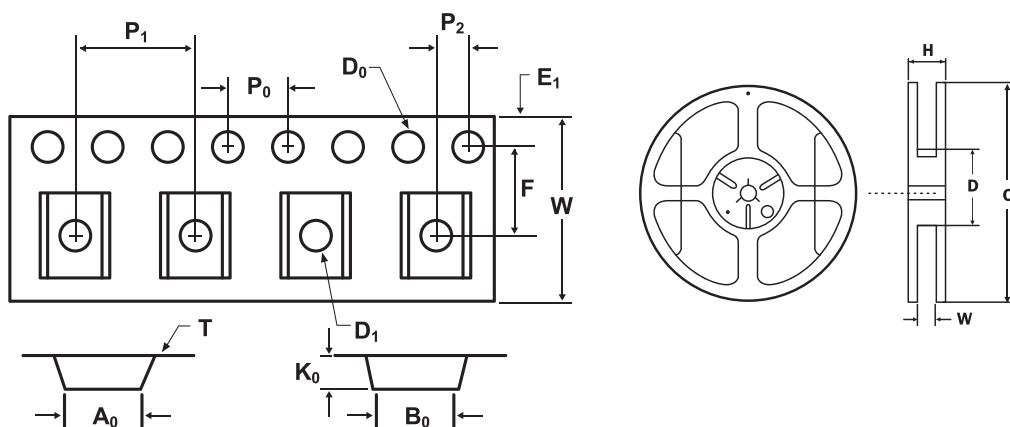
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Tape Specifications: EIA-481 (mm.)

	P020TF/24, P020TF/30 P025TF P025TF/24, P035TF/16 P050TF, P050TF/15 P075TFT, P110TFT	P005TF, P005TF/30 P010TF, P010TF/30 P012TF, P012TF/48 P016TF, P035TF/30, P050TF/24 P075TF/13.2, P075TF/16 P110TF/16, P150TFT	P175TF P200TF
W	8.20 +0.10/-0.30	8.15 +0.15/-0.30	8.20 +0.10/-0.30
F	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05
E₁	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
D₁	1.00 ± 0.10	1.00 ± 0.10	1.00 ± 0.10
P₀	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10
P₁	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10
P₂	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05
A₀	1.95 ± 0.10	1.92 ± 0.10	1.95 ± 0.10
B₀	3.65 ± 0.10	3.65 ± 0.10	3.65 ± 0.10
T	0.20 ± 0.10	0.25 ± 0.10	0.25 ± 0.10
K₀	0.87 ± 0.10	1.30 ± 0.10	1.70 ± 0.10
Leader min.	390	390	390
Trailer min.	160	160	160

Reel Dimensions: EIA-481 (mm.)

C	Ø178 ± 1.0
D	Ø60.2 ± 0.5
H	11.0 ± 0.5
W	9.0 ± 1.5

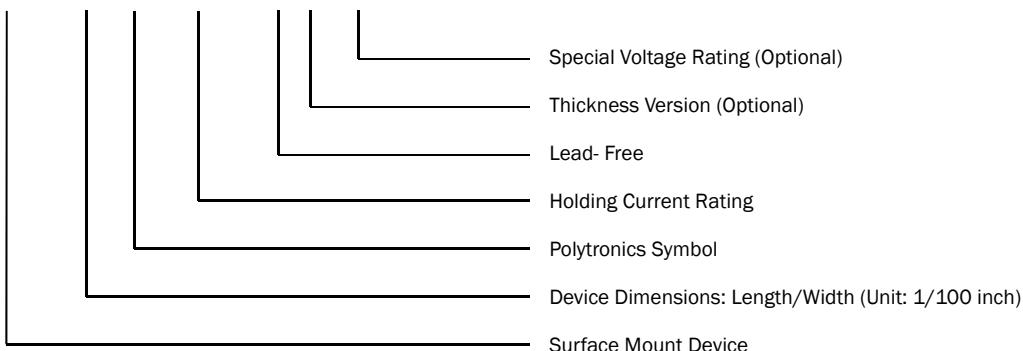


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SMD1206 HF Series Surface Mount PTC Devices

Part Number System

SMD 1206 P □□□ TF T / □□



Cross Reference

Polytronics / EVERFUSE®	Cross Reference	
	TE Connectivity / PolySwitch®	Bourns / Multifuse®
SMD1206P005TF		
SMD1206P005TF/30		
SMD1206P010TF		
SMD1206P010TF/30		
SMD1206P012TF	-	MF-NSMF012
SMD1206P012TF/48	nanoSMDC012F	-
SMD1206P016TF	nanoSMDC016F	MF-NSMF016
SMD1206P020TF/24	nanoSMDC020F	MF-NSMF020
SMD1206P020TF/30	-	MF-NSMF020X
SMD1206P025TF	nanoSMDC025F	MF-NSMF025X
SMD1206P025TF/24	-	-
SMD1206P035TF/16	nanoSMDC035F	MF-NSMF035X
SMD1206P035TF/30		-
SMD1206P050TF	nanoSMDC050F	MF-NSMF050
SMD1206P050TF/15	nanoSMDC050F/13.2	MF-NSMF050
SMD1206P075TFT	nanoSMDC075F	MF-NSMF075
SMD1206P075TF/13.2	-	-
SMD1206P075TF/16	-	-
SMD1206P110TFT	nanoSMDC110F	MF-NSMF110
SMD1206P110TF/16	-	-
SMD1206P150TFT	nanoSMDC150F	MF-NSMF150
SMD1206P175TF	-	-
SMD1206P200TF	nanoSMDC200F	MF-NSMF200

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“Multifuse” is a registered trademark of Bourns, Inc.

“PolySwitch” is a registered trademark of TE Connectivity Ltd.



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