

Summary

- (a) **RoHS Compliant (Lead Free) Product**
 (b) Applications : Wide variety of electronic equipment
 (c) Product Features : Very Low resistance, Very High hold current, Solid state, Radial leaded product ideal for up to 16V and Operating temperatures up to 125°C.
 (d) Operation Current : 0.5A~15.0A
 (e) Maximum Voltage : 16V/30VDC
 (f) Temperature Range : -40°C to 125°C

Agency Recognition

UL: *File No. E211981

C-UL: *File No. E211981

*Note: THT050-30F~THT100-30F UL, C-UL In Process.

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance	
	I _H , A	I _T , A	at 5xI _H , S	I _{MAX} , A	V _{MAX} , VDC	P _d , W	R _{MIN}	R _{1MAX}
	I _H , A	I _T , A	at 5xI _H , S	I _{MAX} , A	V _{MAX} , VDC	P _d , W	Ohms	Ohms
THT050-30F	0.5	0.9	2.5	40	30	0.9	0.4800	1.1000
THT070-30F	0.7	1.4	3.2	40	30	1.4	0.3000	0.8000
THT100-30F	1.0	1.8	5.2	40	30	1.4	0.1800	0.4300
THT200-16F	2.0	3.8	3.0	100	16	1.4	0.0450	0.1100
THT300-16F	3.0	6.0	5.0	100	16	3.0	0.0330	0.0790
THT400-16F	4.0	7.0	5.0	100	16	3.3	0.0240	0.0600
THT450-16F	4.5	7.8	3.0	100	16	3.6	0.0220	0.0540
THT550-16F	5.5	10.0	6.0	100	16	3.5	0.0150	0.0370
THT600-16F	6.0	10.8	5.0	100	16	4.1	0.0130	0.0320
THT650-16F	6.5	12.0	5.5	100	16	4.3	0.0110	0.0260
THT700-16F	7.0	13.0	7.0	100	16	4.0	0.0100	0.0250
THT750-16F	7.5	13.1	7.0	100	16	4.5	0.0094	0.0220
THT800-16F	8.0	15.0	8.0	100	16	4.2	0.0080	0.0200
THT900-16F	9.0	16.5	10.0	100	16	5.0	0.0074	0.0170
THT1000-16F	10.0	18.5	9.0	100	16	5.3	0.0062	0.0150
THT1100-16F	11.0	20.0	11.0	100	16	5.5	0.0055	0.0130
THT1300-16F	13.0	24.0	13.0	100	16	6.9	0.0041	0.0100
THT1400-16F	14.0	27.0	13.0	100	16	6.9	0.0030	0.0090
THT1500-16F	15.0	28.0	20.0	100	16	7.0	0.0032	0.0092

I_H =Hold current-maximum current at which the device will not trip at 23°C still air.
 I_T =Trip current-minimum current at which the device will always trip at 23°C still air.
 V_{MAX} =Maximum voltage device can withstand without damage at its rated current.
 I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).
 P_d =Typical power dissipated from device when in tripped state in 23°C still air environment.
 R_{MIN} =Minimum device resistance at 23°C.
 R_{1MAX} =Maximum device resistance at 23°C, 1 hour after tripping .
 Physical specifications:
 Lead material: THT050-30F~THT100-30F and THT200-16F Tin plated copper, 24 AWG.
 THT300-16F~THT1100-16F Tin plated copper, 20 AWG.
 THT1300-16F~THT1500-16F Tin plated copper, 18 AWG.
 Soldering characteristics:MIL-STD-202, Method 208E.
 Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

Product Dimensions (Millimeters)

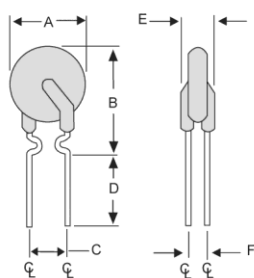


Fig.1

Lead Size :24AWG
Φ0.51 mm Diameter

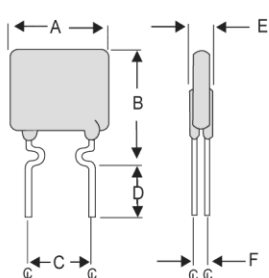


Fig.2

Lead Size :24AWG
Φ0.51 mm Diameter

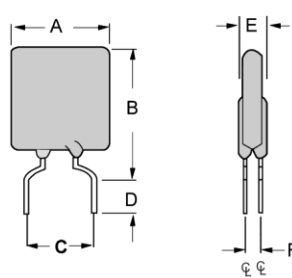


Fig.3

Lead Size : 20AWG
Φ 0.81 mm Diameter

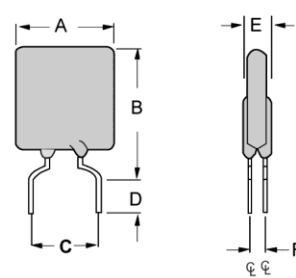
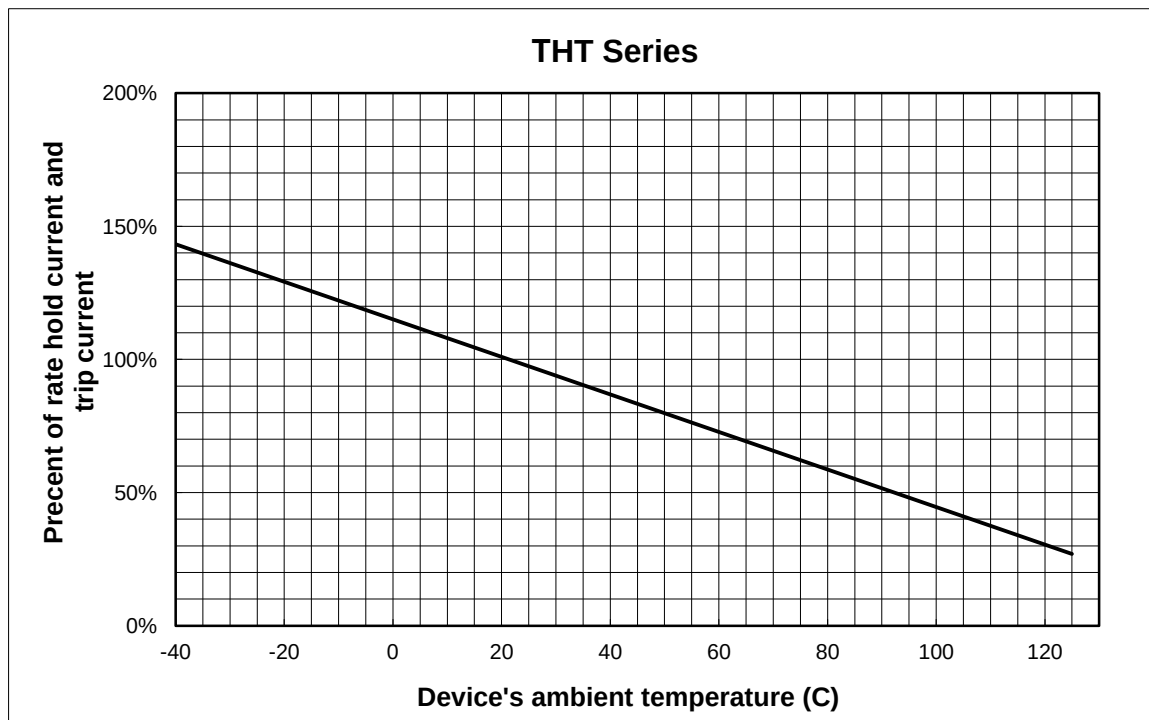


Fig.4

Lead Size : 18AWG
Φ 1.00 mm Diameter

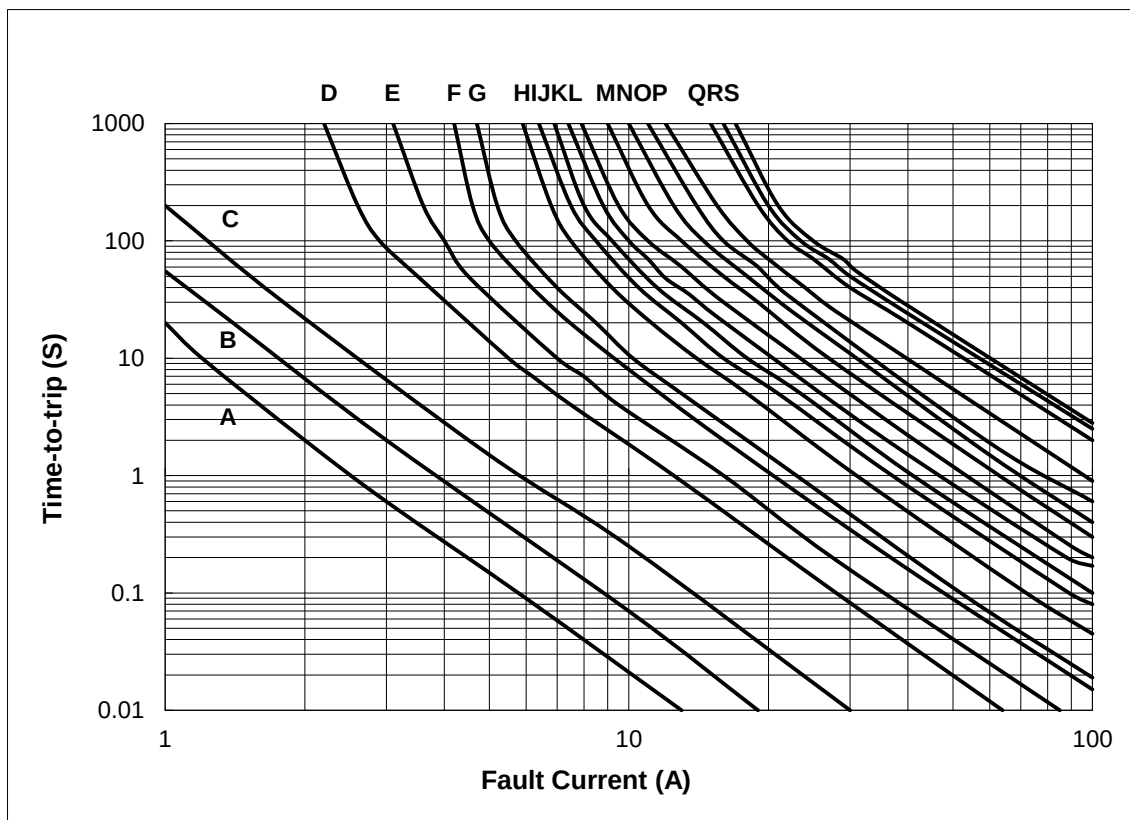
Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
THT050-30F	1	7.4	12.7	5.1	7.6	3.0	1.2
THT070-30F	2	6.9	10.8	5.1	7.6	3.0	1.2
THT100-30F	1	9.7	13.6	5.1	7.6	3.0	1.2
THT200-16F	1	9.4	14.4	5.1	7.6	3.0	1.2
THT300-16F	3	8.8	13.8	5.1	7.6	3.0	1.2
THT400-16F	3	10.0	15.0	5.1	7.6	3.0	1.2
THT450-16F	3	10.4	15.6	5.1	7.6	3.0	1.2
THT550-16F	3	11.2	18.9	5.1	7.6	3.0	1.2
THT600-16F	3	11.2	21.0	5.1	7.6	3.0	1.2
THT650-16F	3	12.7	22.2	5.1	7.6	3.0	1.2
THT700-16F	3	14.0	21.9	5.1	7.6	3.0	1.2
THT750-16F	3	14.0	23.5	5.1	7.6	3.0	1.2
THT800-16F	3	16.5	22.5	5.1	7.6	3.0	1.2
THT900-16F	3	16.5	25.7	5.1	7.6	3.0	1.2
THT1000-16F	3	17.5	26.5	10.2	7.6	3.0	1.2
THT1100-16F	3	21.0	26.1	10.2	7.6	3.0	1.2
THT1300-16F	4	23.5	28.7	10.2	7.6	3.6	1.4
THT1400-16F	4	23.5	28.7	10.2	7.6	3.6	1.4
THT1500-16F	4	23.5	28.7	10.2	7.6	3.6	1.4

Thermal Derating Curve



Typical Time-To-Trip at 23°C

A=THT050-30F
 B=THT070-30F
 C=THT100-30F
 D=THT200-16F
 E=THT300-16F
 F=THT400-16F
 G=THT450-16F
 H=THT550-16F
 I=THT600-16F
 J=THT650-16F
 K=THT700-16F
 L= THT750-16F
 M=THT800-16F
 N=THT900-16F
 O=THT1000-16F
 P=THT1100-16F
 Q=THT1300-16F
 R=THT1400-16F
 S=THT1500-16F



NOTE : Specification subject to change without notice.

Specifications are subject to change without notice

Material Specification

Lead material : THT050-30F~THT100-30F and THT200-16F Tin plated copper, 24 AWG.

THT300-16F~THT1100-16F Tin plated copper, 20 AWG.

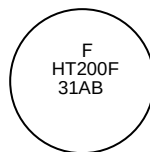
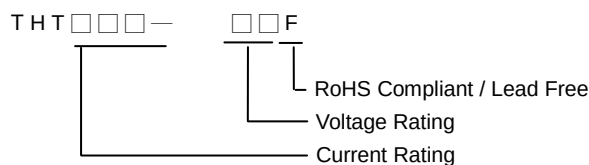
THT1300-16F~THT1500-16F Tin plated copper, 18 AWG.

Soldering characteristics:MIL-STD-202, Method 208E.

Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

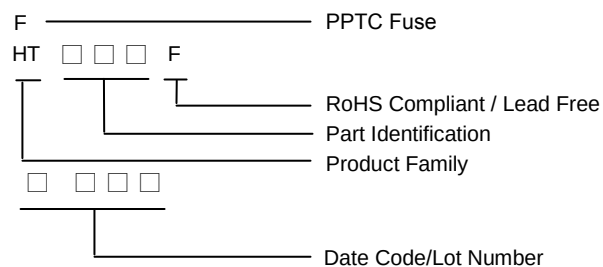
Part Numbering and Marking System

Part Numbering System



Example

Part Marking System



Note: Font on Marking may look slightly different due to fine turnings of each Marking printer.

Warning: -Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.



-PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.

- Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

NOTE : Specification subject to change without notice.