

 FUZETEC TECHNOLOGY CO., LTD.	NO.	PQ27-120E		
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Radial Leaded PTC Resettable Fuse : FHT Series

1. 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 : 2.0A~15.0A**
- (e) **Maximum Voltage : 16V**
- (f) **Temperature Range : -40°C to 125°C**

2. Agency Recognition

UL, C-UL and TÜV Pending

3. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I _H , A	I _T , A	at 5X I _H , Sec	I _{max} , A	V _{max} , V	P _d , W	R _{min}	R _{1max}
	ohms	ohms						
FHT200-16F	2.0	3.8	3.0	100	16	1.4	0.0450	0.1100
FHT300-16F	3.0	6.0	5.0	100	16	3.0	0.0330	0.0790
FHT400-16F	4.0	7.0	5.0	100	16	3.3	0.0240	0.0600
FHT450-16F	4.5	7.8	3.0	100	16	3.6	0.0220	0.0540
FHT550-16F	5.5	10.0	6.0	100	16	3.5	0.0150	0.0370
FHT600-16F	6.0	10.8	5.0	100	16	4.1	0.0130	0.0320
FHT650-16F	6.5	12.0	5.5	100	16	4.3	0.0110	0.0260
FHT700-16F	7.0	13.0	7.0	100	16	4.0	0.0100	0.0250
FHT750-16F	7.5	13.1	7.0	100	16	4.5	0.0094	0.0220
FHT800-16F	8.0	15.0	8.0	100	16	4.2	0.0080	0.0200
FHT900-16F	9.0	16.5	10.0	100	16	5.0	0.0074	0.0170
FHT1000-16F	10.0	18.5	9.0	100	16	5.3	0.0062	0.0150
FHT1100-16F	11.0	20.0	11.0	100	16	5.5	0.0055	0.0130
FHT1300-16F	13.0	24.0	13.0	100	16	6.9	0.0041	0.0100
FHT1400-16F	14.0	27.0	13.0	100	16	6.9	0.0030	0.0090
FHT1500-16F	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: FHT200-16F Tin plated copper, 24 AWG.
FHT300-16F~FHT1100-16F Tin plated copper, 20 AWG.
FHT1300-16F~FHT1500-16F Tin plated copper, 18 AWG.

Soldering characteristics:MIL-STD-202, Method 208E.
Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

NOTE : Specification subject to change without notice.



4. Production Dimensions (millimeter)

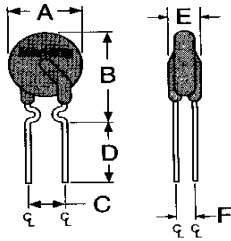


Figure 1
Lead Size :24AWG
Φ0.51 mm Diameter

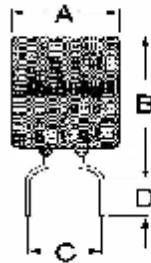


Figure 2
Lead Size : 20AWG
Φ 0.81 mm Diameter

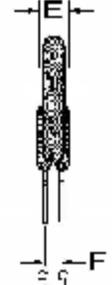
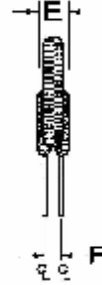


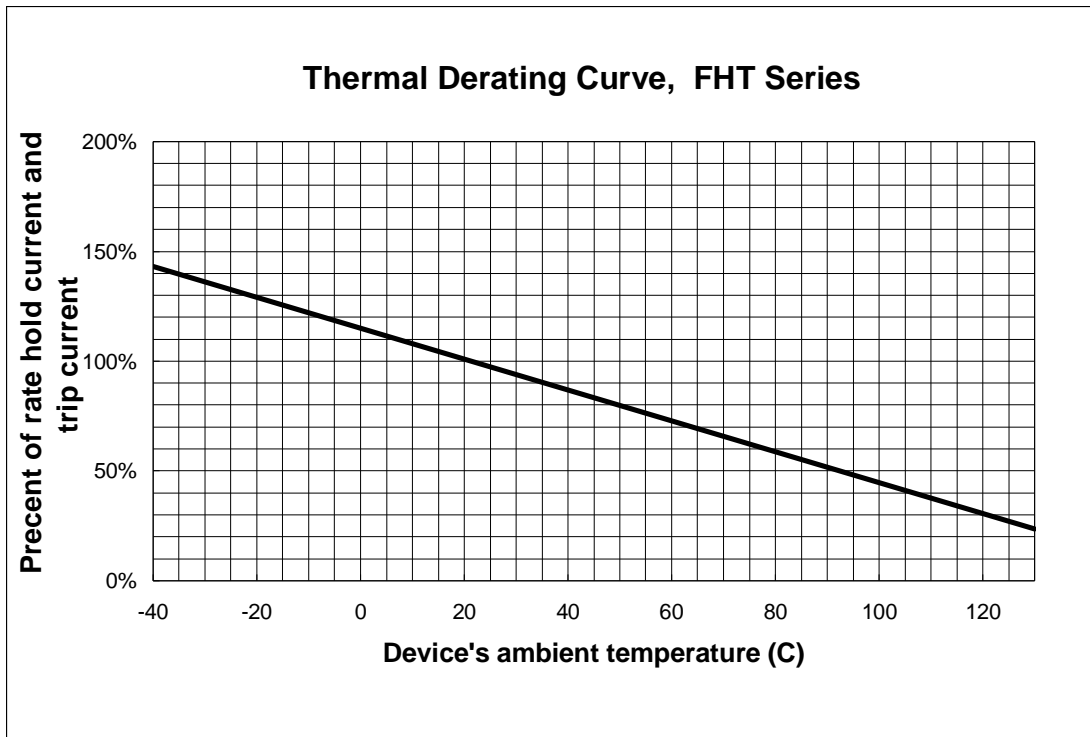
Figure 3
Lead Size : 18AWG
Φ 1.00 mm Diameter

Part Number	Fig	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
FHT200-16F	1	9.4	14.4	5.1	7.6	3.0	1.2
FHT300-16F	2	8.8	13.8	5.1	7.6	3.0	1.2
FHT400-16F	2	10.0	15.0	5.1	7.6	3.0	1.2
FHT450-16F	2	10.4	15.6	5.1	7.6	3.0	1.2
FHT550-16F	2	11.2	18.9	5.1	7.6	3.0	1.2
FHT600-16F	2	11.2	21.0	5.1	7.6	3.0	1.2
FHT650-16F	2	12.7	22.2	5.1	7.6	3.0	1.2
FHT700-16F	2	14.0	21.9	5.1	7.6	3.0	1.2
FHT750-16F	2	14.0	23.5	5.1	7.6	3.0	1.2
FHT800-16F	2	16.5	22.5	5.1	7.6	3.0	1.2
FHT900-16F	2	16.5	25.7	5.1	7.6	3.0	1.2
FHT1000-16F	2	17.5	26.5	10.2	7.6	3.0	1.2
FHT1100-16F	2	21.0	26.1	10.2	7.6	3.0	1.2
FHT1300-16F	3	23.5	28.7	10.2	7.6	3.6	1.4
FHT1400-16F	3	23.5	28.7	10.2	7.6	3.6	1.4
FHT1500-16F	3	23.5	28.7	10.2	7.6	3.6	1.4

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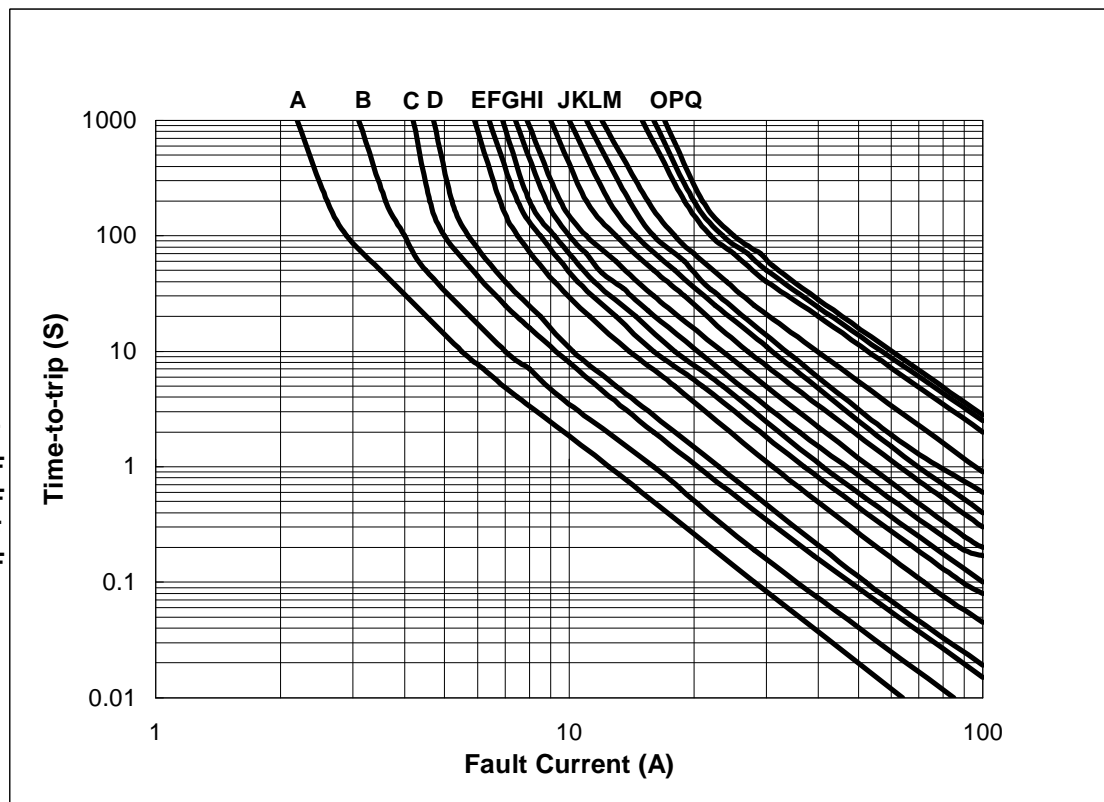


5. Thermal Derating Curve



6. Typical Time-To-Trip at 23°C

- A=FHT200-16F
- B=FHT300-16F
- C=FHT400-16F
- D=FHT450-16F
- E=FHT550-16F
- F=FHT600-16F
- G=FHT650-16F
- H=FHT700-16F
- I= FHT750-16F
- J=FHT800-16F
- K=FHT900-16F
- L=FHT1000-16F
- M=FHT1100-16F
- O=FHT1300-16F
- P=FHT1400-16F
- Q=FHT1500-16F



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7. Material Specification

Lead material : FHT200-16F Tin plated copper, 24 AWG.

FHT300-16F~FHT1100-16F Tin plated copper, 20 AWG.

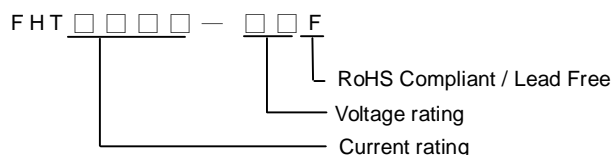
FHT1300-16F~FHT1500-16F Tin plated copper, 18 AWG.

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

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

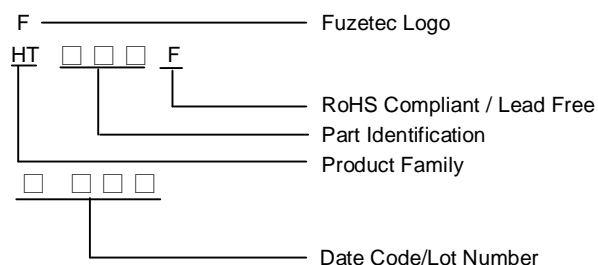
8. Part Numbering and Marking System

Part Numbering System



Example

Part Marking System



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.