

 FUZETEC TECHNOLOGY CO., LTD.	NO.	PQ64-101E		
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Radial Leaded PTC Resettable Fuse : FHK-48F 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 48V and Operating temperatures up to 125°C.**
- (d) **Operation Current : 0.5A~5.0A**
- (e) **Maximum Voltage : 48V**
- (f) **Temperature Range : -40°C to 125°C**

2. Agency Recognition

UL: File No. E211981

C-UL: File No. E211981

TÜV: In Process

3. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance	
							RMIN	R1MAX
	I _H , A	I _T , A	at 5xI _H , S	I _{MAX} , A	V _{MAX} , VDC	P _d , W	Ohms	Ohms
FHK050-48F	0.5	1.0	10.0	40	48	1.4	0.3500	1.1000
FHK070-48F	0.7	1.4	10.0	40	48	2.0	0.2300	0.8000
FHK100-48F	1.0	1.9	10.0	40	48	2.4	0.1500	0.4300
FHK200-48F	2.0	4.0	10.0	40	48	3.0	0.0650	0.2500
FHK300-48F	3.0	6.0	15.0	40	48	4.8	0.0350	0.1100
FHK500-48F	5.0	10.0	25.0	40	48	7.0	0.0150	0.0400

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: FHK050-48F~FHK100-48F Tin plated copper clad steel, 24 AWG.

FHK200-48F~FHK500-48F Tin plated copper, 20 AWG.

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

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

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4. Production Dimensions (millimeter)

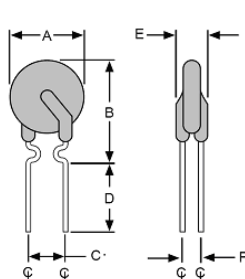


Fig.1
Lead Size: 24AWG
Φ0.51 mm Diameter

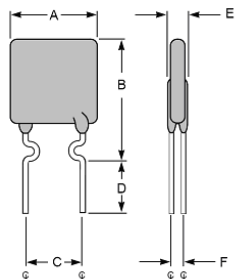


Fig.2
Lead Size: 24AWG
Φ0.51 mm Diameter

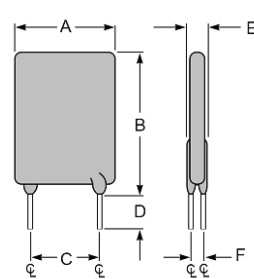


Fig.3
Lead Size: 24AWG
Φ0.51 mm Diameter

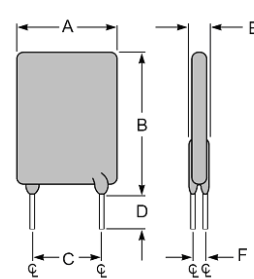
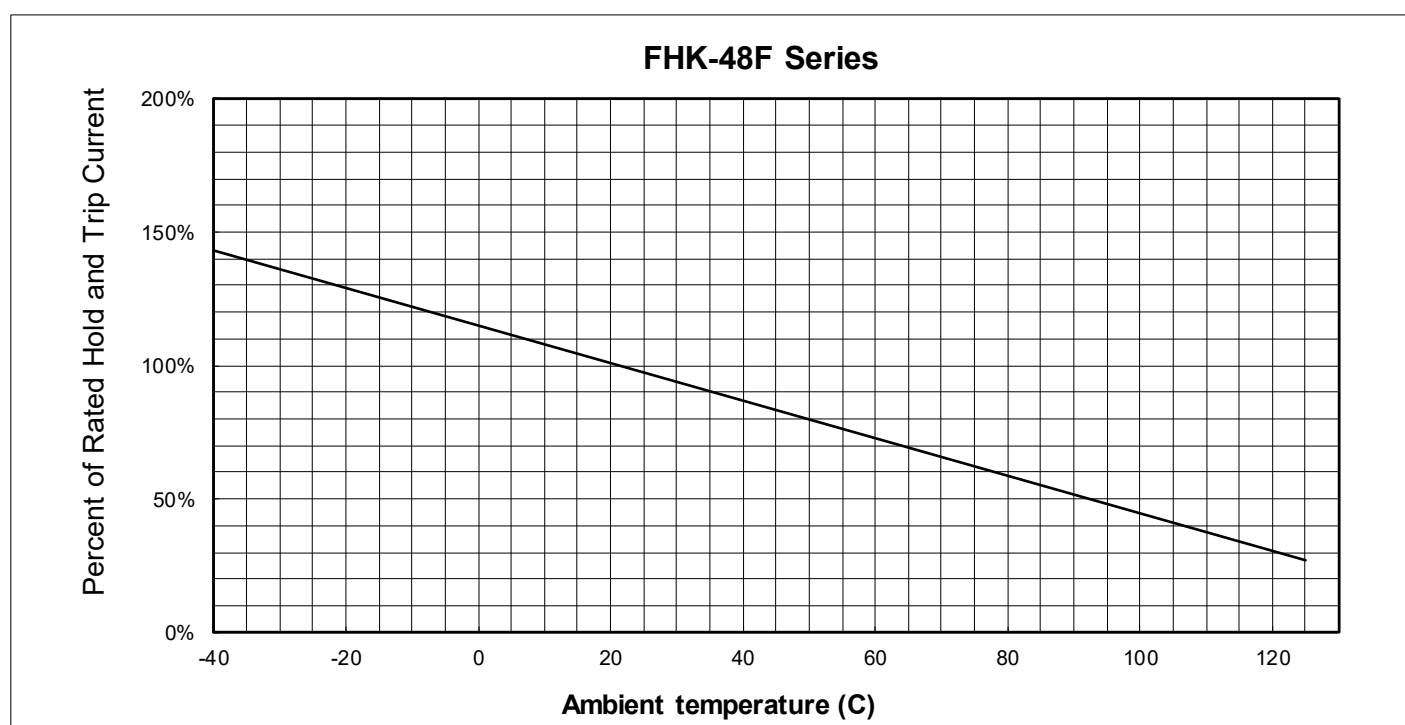


Fig.4
Lead Size: 20AWG
Φ0.81 mm Diameter

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typ.
FHK050-48F	1	8.5	12.7	5.1	7.6	3.3	1.2
FHK070-48F	2	7.0	13.0	5.1	7.6	3.0	1.2
FHK100-48F	3	9.0	15.0	5.1	7.6	3.0	1.2
FHK200-48F	4	13.0	19.0	5.1	7.6	3.8	1.5
FHK300-48F	4	15.2	25.0	5.1	7.6	3.8	1.5
FHK500-48F	4	25.5	34.0	10.2	7.6	3.8	1.5

5. Thermal Derating Curve

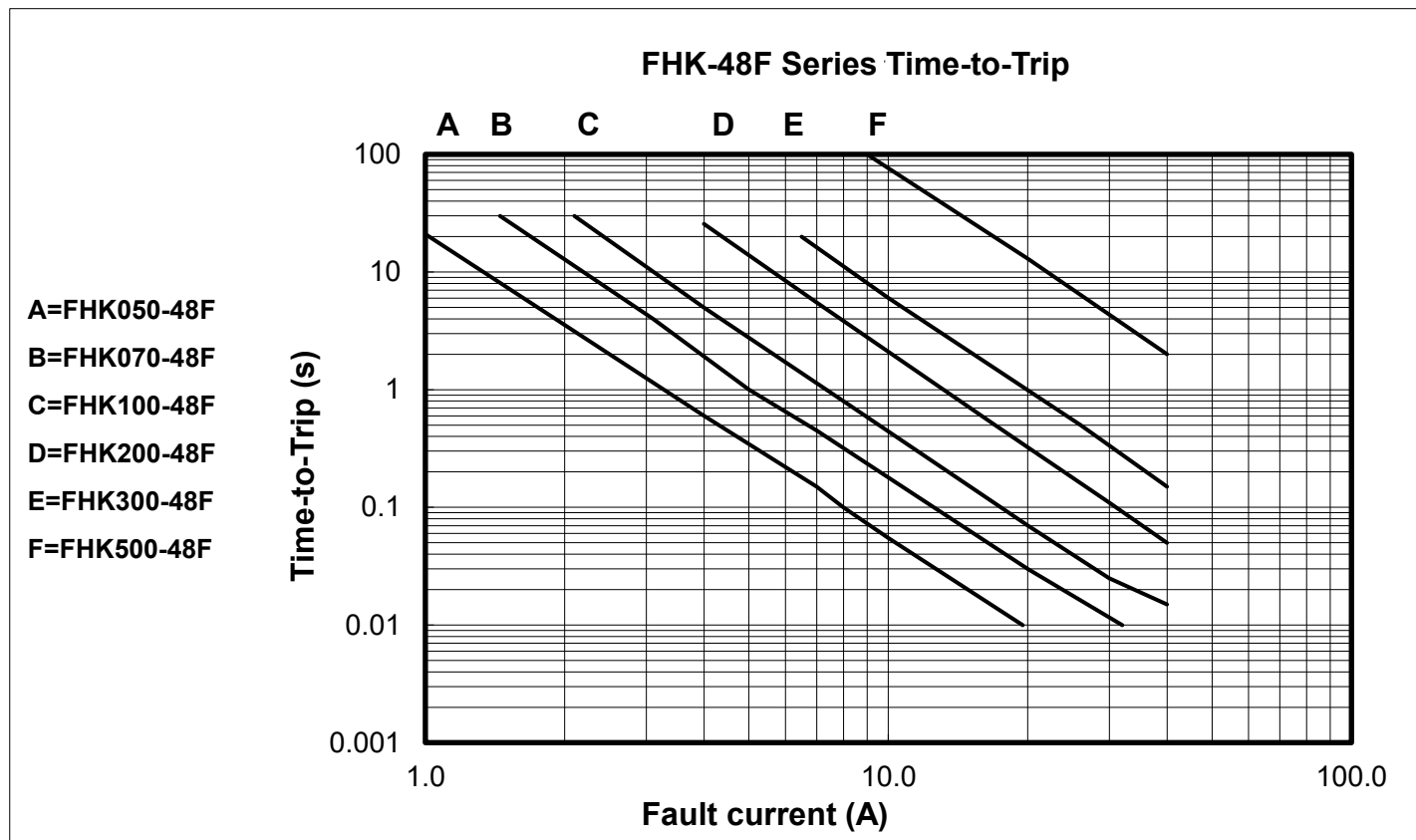


NOTE : Specification subject to change without notice.

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6. Typical Time-To-Trip at 23℃



7.Material Specification

Lead material: FHK050-48F~FHK100-48F Tin plated copper clad steel, 24 AWG.

FHK200-48F~FH500-48F Tin plated copper, 20 AWG..

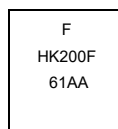
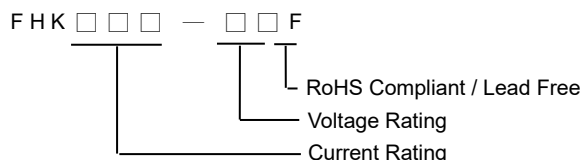
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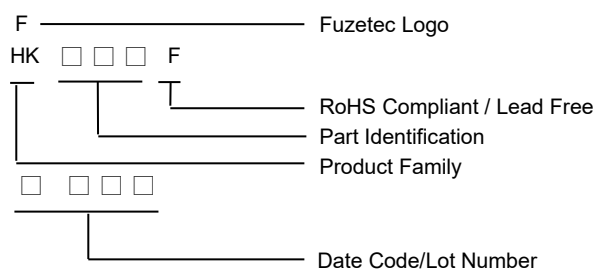
8. Part Numbering and Marking System

Part Numbering System



Example

Part Marking System



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

Warning: - Each product should be carefully evaluated and tested for their suitability of application.



- Operation beyond the specified maximum rating 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, including some inert material such as silicone based oil, lubricant and etc. Prolonged contact will damage the device performance.
- Additional protection mechanism are strongly recommended to be used in conjunction with the PPTC device for protection against abnormal or failure conditions.
- Avoid use of PPTC device in a constrained space such as potting material, housing and containers where have limited space to accommodate device thermal expansion and/or contraction.