

FEATURES

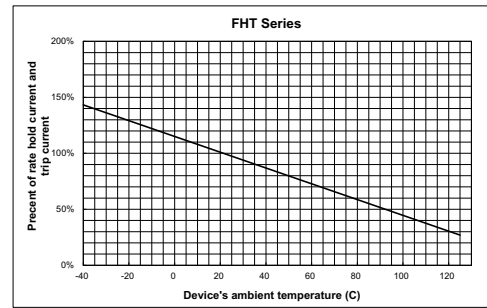
- Applications : Wide variety of electronic equipment
- Product Features : Very Low resistance, Very High hold current, Solid state, Operating temperatures up to 125°C
- Operation Current: 0.50A ~ 10.0A
- Maximum Voltage: 32Vdc
- Temperature Range: -40°C to 125°C

AGENCY RECOGNITION

Made for RFE by UL shop Fuzetec

- UL (E211981)
- C-UL (E211981)
- TÜV (R50004084)

THERMAL DERATING CURVE



ELECTRICAL CHARACTERISTICS (23°C)

| Part Number | Hold Current I _H , A | Trip Current I _T , A | Max. Time to Trip at 5 x I _H , S | Maximum Current I _{MAX} , A | Rated Voltage V _{MAX} , Vdc | Typical Power P _d , W | Resistance | |
|-------------|------------------------------------|------------------------------------|--|---|---|-------------------------------------|------------|--------|
| | | | | | | | R min | R1 max |
| | | | | | | | Ohms | Ohms |
| FHE050-32F | 0.5 | 1.0 | 3.0 | 100 | 32 | 0.9 | 0.3500 | 1.1000 |
| FHE070-32F | 0.7 | 1.4 | 3.2 | 100 | 32 | 1.4 | 0.2300 | 0.8000 |
| FHE100-32F | 1.0 | 1.9 | 6.2 | 100 | 32 | 1.4 | 0.1500 | 0.4300 |
| FHE200-32F | 2.0 | 4.0 | 5.5 | 100 | 32 | 2.2 | 0.0650 | 0.2500 |
| FHE300-32F | 3.0 | 6.0 | 5.0 | 100 | 32 | 3.2 | 0.0350 | 0.1100 |
| FHE500-32F | 5.0 | 10.0 | 9.0 | 100 | 32 | 5.3 | 0.0150 | 0.0400 |
| FHE750-32F | 7.5 | 15.0 | 13.0 | 100 | 32 | 6.5 | 0.0074 | 0.0230 |
| FHE1000-32F | 10.0 | 20.0 | 15.0 | 100 | 32 | 7.0 | 0.0060 | 0.0160 |

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.
 I_T=Trip current-maximum 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 the tripped state in 23°C still air environment.
 R_{MIN}=Minimum device resistance at 23°C.
 R1_{MAX}=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material: FHE050-32F ~ FHE100-32F Tin plated copper, 24 AWG.
 FHE200-32F ~ FHE750-32F Tin plated copper, 20 AWG
 FHE1000-32F Tin plated copper, 18 AWG

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

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

NOTE: All Specifications subject to change without notice.

DIMENSIONS (mm)

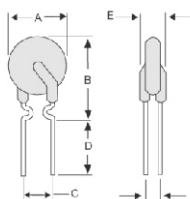


Fig. 1
Lead Size: 24AWG
φ 0.51 mm Diameter

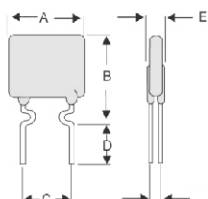


Fig. 2
Lead Size: 24AWG
φ 0.51 mm Diameter

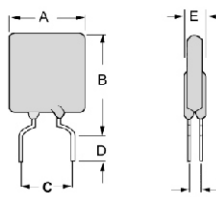


Fig. 3
Lead Size: 20AWG
φ 0.81 mm Diameter

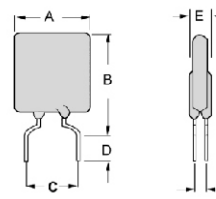
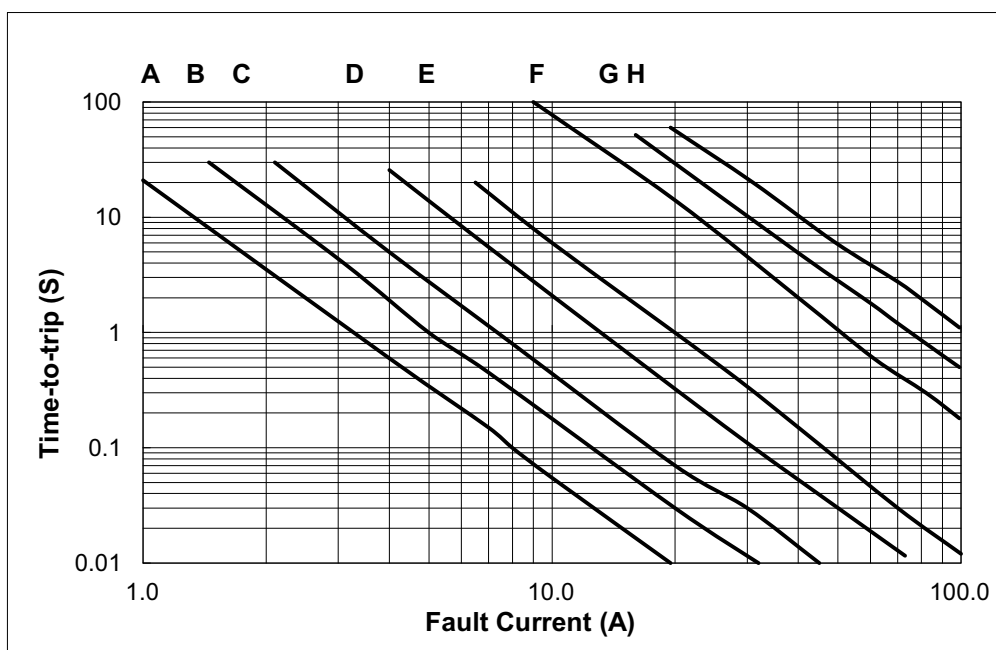


Fig. 4
Lead Size: 18AWG
φ 1.0 mm Diameter

| Part Number | Fig. | A | B | C | D | E |
|-------------|------|---------|---------|---------|---------|---------|
| | | Maximum | Maximum | Typical | Minimum | Maximum |
| FHE050-32F | 1 | 7.4 | 12.7 | 5.1 | 7.6 | 3.3 |
| FHE070-32F | 2 | 6.9 | 10.8 | 5.1 | 7.6 | 3.0 |
| FHE100-32F | 1 | 9.7 | 13.6 | 5.1 | 7.6 | 3.0 |
| FHE200-32F | 3 | 9.5 | 13.5 | 5.1 | 7.6 | 3.0 |
| FHE300-32F | 3 | 10.2 | 15.5 | 5.1 | 7.6 | 3.8 |
| FHE500-32F | 3 | 14.0 | 24.1 | 5.1 | 7.6 | 3.8 |
| FHE750-32F | 3 | 21.1 | 24.9 | 10.2 | 7.6 | 3.8 |
| FHE1000-32F | 4 | 23.5 | 27.9 | 10.2 | 7.6 | 4.0 |

TYPICAL TIME-TO-TRIP AT 23°C

- A=FHE050-32F
- B=FHE070-32F
- C=FHE100-32F
- D=FHE200-32F
- E=FHE300-32F
- F=FHE500-32F
- G=FHE750-32F
- H=FHE1000-32F



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