FUZETEC TECHNOLOGY CO., LTD.

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NO.

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Radial Leaded PTC Resettable Fuse: FRU135-30F

1. Summary

- (a) RoHs Compliant (Lead Free) Product
- (b) Applications: Wide variety of electronic equipment
- (c) Product Features: Low resistance, High hold current, Solid state, Radial leaded product ideal for up to 30V
- (d) Operation Current: 1.35A
- (e) Maximum Voltage: 30V
- (f) Temperature Range : -40° C to 85° C

2. Agency Recognition

- File No. E211981 UL:
- C-UL: File No. E211981
- TÜV: File No. R50004084

3. Electrical Characteristics (23°℃)

Part Number	Hold	Trip	Max.Time	Maximum	Rated	Typical	Resistance	
	Current	Current	To Trip	Current	Voltage	Power	Rміn	R1MAX
	Ін, А	IT, A	at 5xIн,s	Імах, А	VMAX, VDC	Pd, W	Ohms	Ohms
FRU135-30F	1.35	2.70	7.3	100	30	0.8	0.040	0.130

In=Hold current-maximum current at which the device will not trip at 23°C still air.

Tr=Trip current-minimum current at which the device will always trip at 23 $^{\circ}$ 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). Pd=Maximum power dissipated from device when in tripped state in 23°C still air environment.

RMIN=Minimum device resistance at 23°C

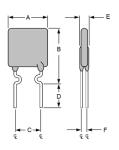
R1_{MAX}=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material: Tin plated copper, 24 AWG. Soldering characteristics: MIL-STD-202, Method 208E

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

4. Production Dimensions (millimeter)



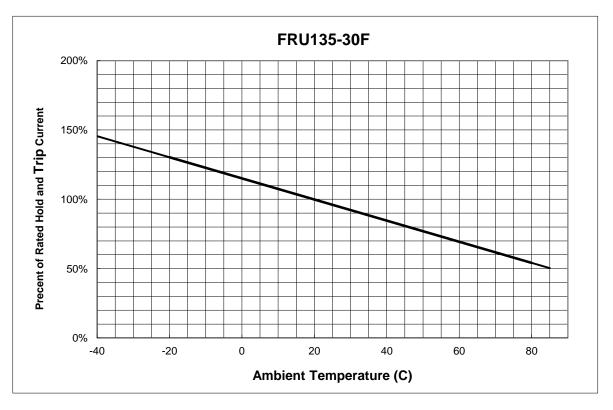
FRU 135-30F Lead Size: 24AWG Φ 0.51 mm Diameter

Part Α В С D Е F Number Maximum Maximum Typical Minimum Maximum Typical FRU135-30F 8.9 5.1 7.6 13.5 3.0 0.9

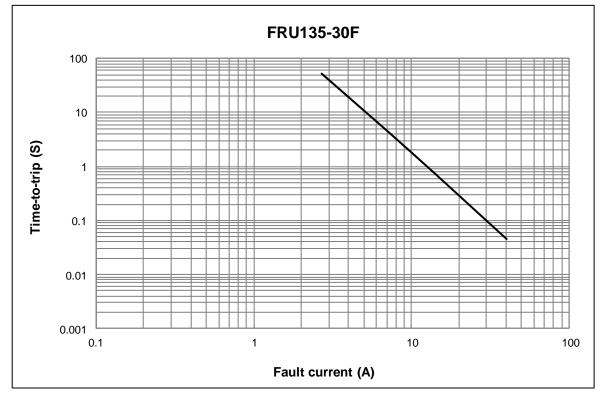
NOTE : Specification subject to change without notice.

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5. Thermal Derating Curve



6. Typical Time-To-Trip at 23 $^\circ\!\mathrm{C}$

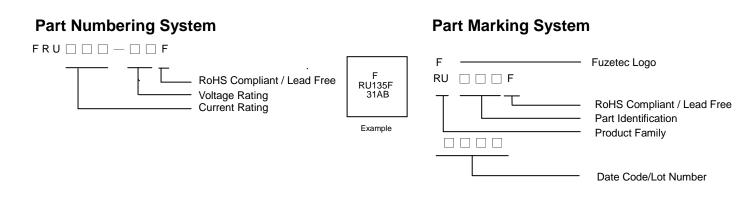


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7. Material Specification

Lead material: Tin plated copper, 24 AWG. Soldering characteristics: MIL-STD-202, Method 208E. Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

8. Part Numbering and 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.