Radial Leaded PTC Resettable Fuse: FRX 090-60F

1. Summary

- (a) RoHS Compliant (Lead Free) Product
- (b) Applications: Wide variety of electronic equipment
- (c) Product Features: Low hold current, Solid state, Radial leaded product ideal for up to 60V
- (d) Operation Current: 900mA(e) Maximum Voltage: 60V
- (f) Temperature Range : -40°C to 85°C

2. Agency Recognition

UL: File No. E211981 C-UL: File No. E211981 TÜV: File No. R 50004084

3. Electrical Characteristics (23°℃)

Part Number	Hold	Trip	Max.Time	Maximum	Rated	Typical Resi		stance	
	Current	Current	to Trip	Current	Voltage	Power	RMIN	R ₁ max	
	Ін, А	І т, А	at 5х l н	Імах, А	Vmax, Vdc	Pd, W	ohms	ohms	
FRX090-60F	0.90	1.80	7.2	40	60	0.99	0.20	0.47	

I_H=Hold current-maximum current at which the device will not trip at 23℃ still air. I_T=Trip current-minimum current at which the device will always trip at 23℃ 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=Typical power dissipated from device when in 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.

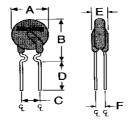
Physical specifications:

Lead material: 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)



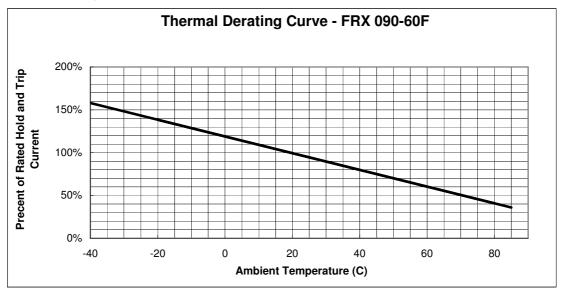
FRX 090-60F Lead Size: 24AWG Φ 0.51 mm Diameter

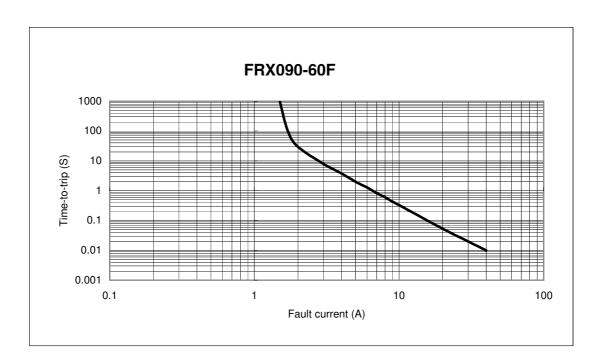
Part	Α	В	С	D	E	F
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRX090-60F	11.7	15.8	5.1	7.6	3.1	1.1

NOTE: Specification subject to change without notice.

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5. Thermal Derating Curve





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7. Material Specification

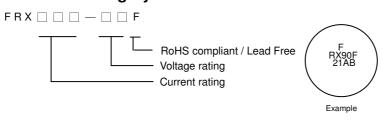
Lead material: Tin plated copper, 24 AWG.

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

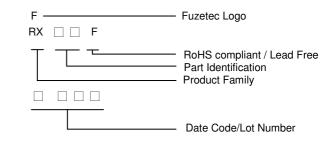
Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement

8. Part Numbering and Marking System

Part Numbering System



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.