FUZETEC TECHNOLOGY CO., LTD.

PQ34-106E

3

NO.

Product Specification and Approval Sheet Version

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Radial Leaded PTC Resettable Fuse : FRK110-60F

1. Summary

- (a) RoHS Compliant (Lead Free) product
- (b) Applications : Wide variety of electronic equipment
- (c) Product Features : Solid state, Radial leaded product ideal for up to 60V_{DC}
- (d) Operation Current : 1.10A
- (e) Maximum Operation Voltage : 60V_{DC}
- (f) Temperature Range : -40 $^\circ\!\!\mathbb{C}$ to 85 $^\circ\!\!\mathbb{C}$

2. Agency Recognition

- UL: Pending
- C-UL: Pending
- TÜV: Pending

3. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip		Max. Current	Rated Voltage	Typ. Power	Resis Rmin	tance R1MAX
	Ін, А	IT, A	I, A	Time,S	Імах, А	VMAX, VDC	Pd, W	Ohms	Ohms
FRK110-60F	1.10	2.20	8.0	3.0	40	60	2.20	0.170	0.470

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

IT=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). Pd=Typical power dissipated from device when in tripped state in 23°C still air environment.

RMIN=Minimum device resistance at 23°C

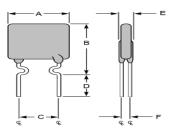
R1_{MAX}=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material: Tin plated copper,20AWG. Soldering characteristics:MIL-STD-202, Method 208E.

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

4. Production Dimensions (millimeter)

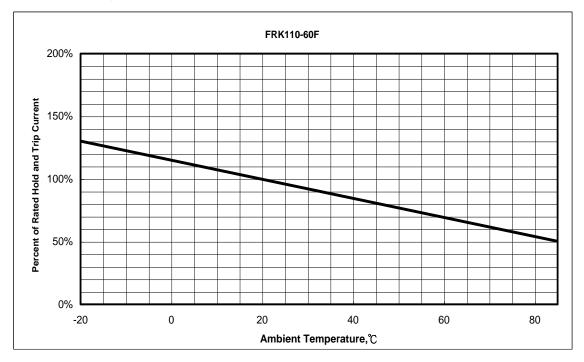


FRK110-60F Lead Size : 20AWG Φ 0.81 mm Diameter

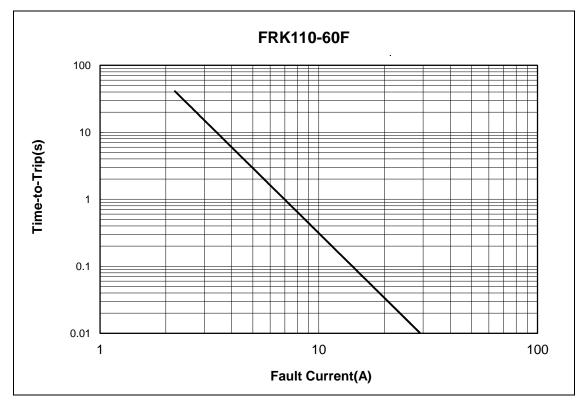
Part	Α	В	С	D	E	F	
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical	
FRK110-60F	7.60	14.50	5.1	7.6	4.10	1.1	

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5. Thermal Derating Curve



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



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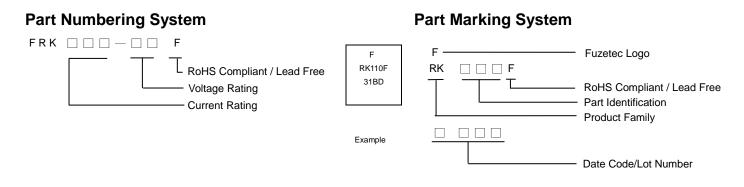
7. Material Specification

Lead material : Tin plated copper, 20 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.