FUZETEC TECHNOLOGY CO., LTD.	NO. PQ34-109E			9E
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Radial Leaded PTC Resettable Fuse: FRK185-60F

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: 1.85A

(e) Maximum Operation Voltage: 60V_{DC} (f) Temperature Range : -40°C to 85°C

2. Agency Recognition

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

3. Electrical Characteristics (23°C)

Dout	Hold	Trip	Max.Time to Trip		Max.	Rated	Тур.	Resis	tance
Part	Current	Current			Current	Voltage	Power	RMIN	R1MAX
Number	IH, A	IT, A	I, A	Time,s	IMAX, A	VMAX, VDC	Pd, W	Ohms	Ohms
FRK185-60F	1.85	3.70	9.25	12.6	40	60	2.60	0.060	0.250

Iн=Hold current-maximum current at which the device will not trip at 23℃ still air. Ir=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.

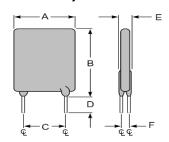
Physical specifications:

Lead material: Tin plated copper,20AWG.

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

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

4. Production Dimensions (millimeter)



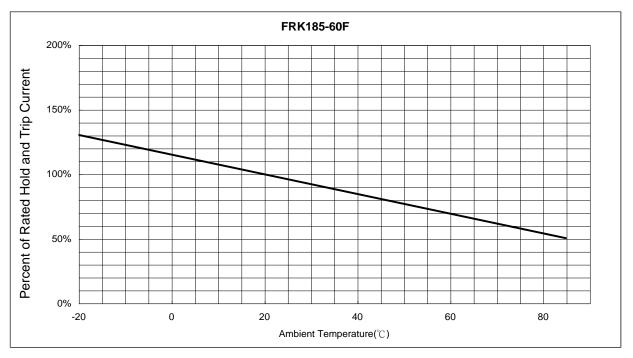
FRK185-60F Lead Size: 20AWG Φ 0.81 mm Diameter

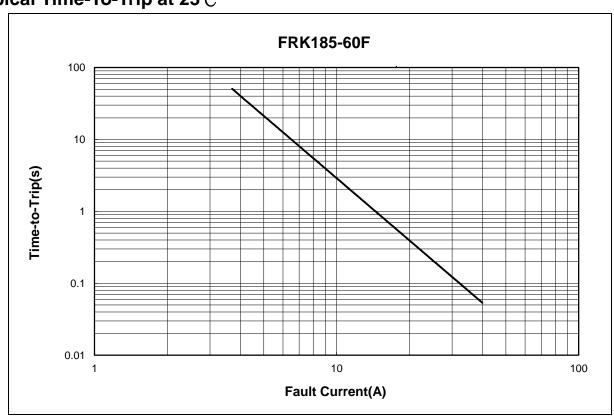
Part	Α	В	С	D	E	F
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRK185-60F	13.00	18.80	5.1	7.6	3.81	1.4

NOTE: Specification subject to change without notice.

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5. Thermal Derating Curve





NOTE: Specification subject to change without notice.

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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.

NOTE: Specification subject to change without notice.