FUZETEC TECHNOLOGY CO., LTD.	NO. PQ34-107E			7E
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### Radial Leaded PTC Resettable Fuse: FRK135-60F

#### 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<sub>DC</sub>

(d) Operation Current: 1.35A

(e) Maximum Operation Voltage : 60V<sub>DC</sub>
(f) Temperature Range : -40℃ to 85℃

### 2. Agency Recognition

UL: Pending C-UL: Pending TÜV: Pending

### 3. Electrical Characteristics (23°C)

Dowt	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
FRK135-60F	1.35	2.70	8.0	4.5	40	60	2.30	0.110	0.370

I<sub>H</sub>=Hold current-maximum current at which the device will not 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℃ still air environment.

RMIN=Minimum device resistance at 23°C.

R1<sub>MAX</sub>=Maximum device resistance at 23°C, 1 hour after tripping.

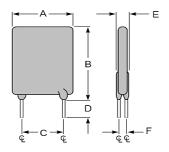
Physical specifications:

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)



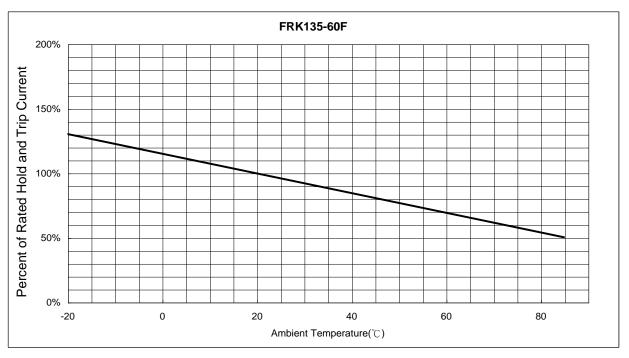
#### FRK135-60F Lead Size : 20AWG Φ 0.81 mm Diameter

Part	Α	В	С	D	E	F
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRK135-60F	10.20	17.00	5.1	7.6	3.81	1.4

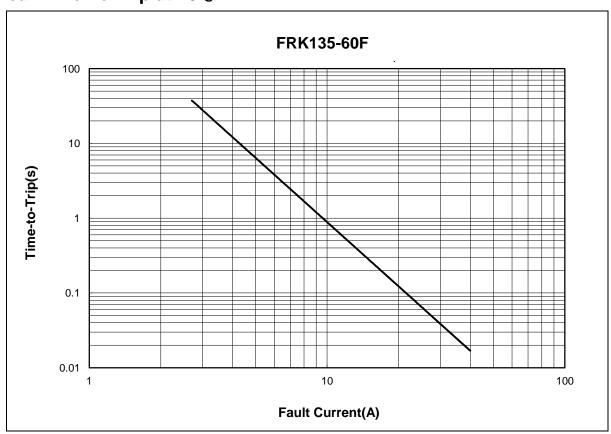
NOTE: Specification subject to change without notice.

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# 5. Thermal Derating Curve



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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

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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.