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## Radial Leaded PTC Resettable Fuse: FRK250-60F

### 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: 2.50A

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

## 2. Agency Recognition

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

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

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
FRK250-60F	2.50	5.00	12.5	15.6	40	60	2.80	0.040	0.140

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

I<sub>T</sub>=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<sub>MIN</sub>=Minimum device resistance at 23°C

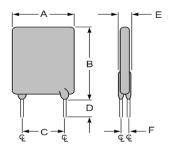
R<sub>1MAX</sub>=Maximum device resistance at 23°C, 1 hour after tripping.

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)



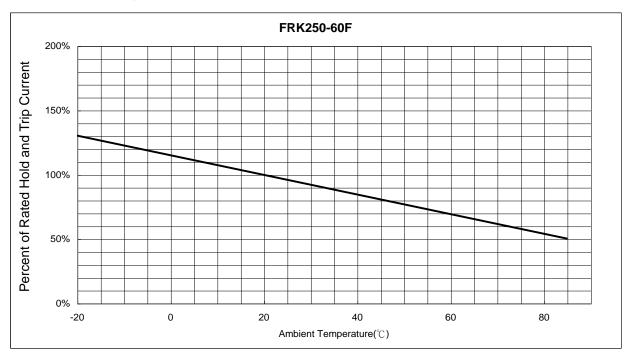
#### FRK250-60F Lead Size: 20AWG Φ 0.81 mm Diameter

Part	Α	В	С	D	E	F
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRK250-60F	14.00	20.60	5.1	7.6	3.00	1.4

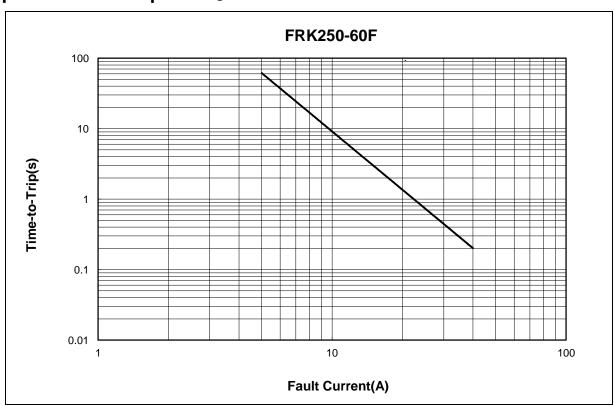
NOTE: Specification subject to change without notice.

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# 5. Thermal Derating Curve



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NOTE: Specification subject to change without notice.

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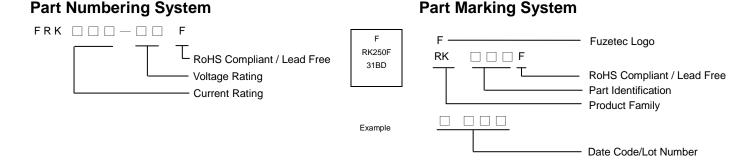
### 7. Material Specification

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



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.