FUZETEC TECHNOLOGY CO., LTD.	NO. PQ34-111E			IE
Product Specification and Approval Sheet	Version	4	Page	1/3

Radial Leaded PTC Resettable Fuse: FRK300-60F

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: 3.00A

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

2. Agency Recognition

UL: File No. E211981 C-UL: File No. E211981

TÜV: **Pending**

3. Electrical Characteristics (23°C)

Part	Hold	Trip	May Tim	e to Trip	Max.	Rated	Тур.	Resis	tance
	Current	Current	Wax. Hill	e to mp	Current	Voltage	Power	RMIN	R1MAX
Number	IH, A	IT, A	I, A	Time,s	IMAX, A	VMAX, VDC	Pd, W	Ohms	Ohms
FRK300-60F	3.00	6.00	15.0	19.8	40	60	3.20	0.030	0.080

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

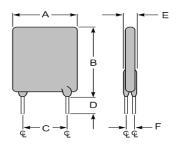
R1_{MAX}=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

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

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

4. Production Dimensions (millimeter)



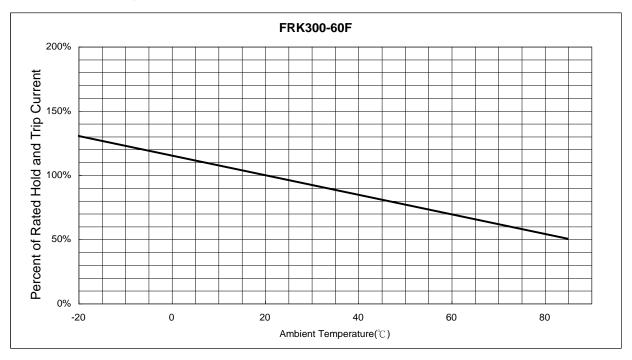
FRK300-60F Lead Size: 20AWG Φ 0.81 mm Diameter

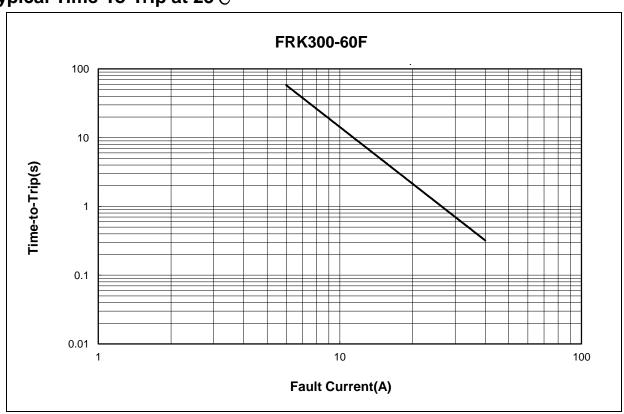
1, 0.01,							
Part	Α	В	С	D	E	F	
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical	
FRK300-60F	16.50	21.20	5.1	7.6	3.00	1.4	

NOTE: Specification subject to change without notice.

FUZETEC TECHNOLOGY CO., LTD.	NO.	P	Q34-11′	34-111E	
Product Specification and Approval Sheet	Version	4	Page	2/3	

5. Thermal Derating Curve





FUZETEC TECHNOLOGY CO., LTD.	NO.	P	PQ34-111E			
Product Specification and Approval Sheet	Version	4	Page	3/3		

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

Part Numbering System FRK Grand Free Rohs Compliant / Lead Free Voltage Rating Current Rating FRK Grand Free Rohs Compliant / Lead Free Part Identification Product Family Example Date Code/Lot Number

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.