FUZETEC TECHNOLOGY CO., LTD.

3

NO.

Product Specification and Approval Sheet Version

Page 1/3

Radial Leaded PTC Resettable Fuse : FRK400-60F

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 : 4.00A
- (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)

Part	Hold	Trip	Max.Time to Trip		Max.	Rated	Тур.	Resis	tance
	Current	Current			Current	Voltage	Power	RMIN	R1MAX
Number	Ін, А	Іт, А	I, A	Time,S	ΙΜΑΧ, Α	VMAX, VDC	Pd, W	Ohms	Ohms
FRK400-60F	4.00	8.00	20.0	24.0	40	60	3.70	0.014	0.060

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 $^\circ\!C$ 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

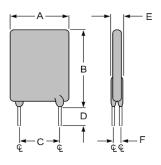
R1_{MAX}=Maximum device resistance at 23°C, 1 hour after tripping.

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)



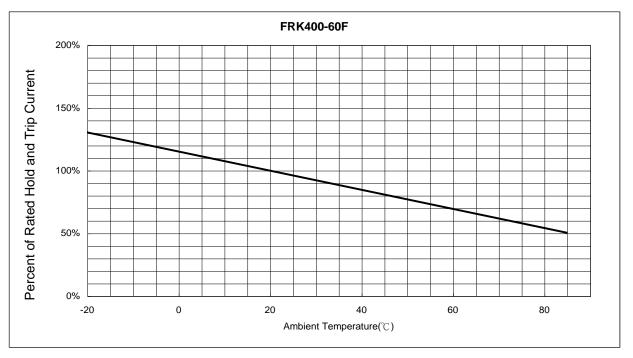
FRK400-60F Lead Size : 20AWG



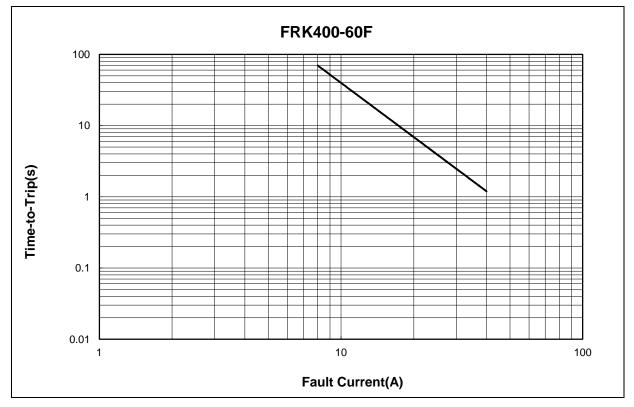
Part		Α	В	С	D	Е	F	
	Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical	
	FRK400-60F	21.00	24.90	10.2	7.6	3.00	1.4	

FUZETEC TECHNOLOGY CO., LTD.	NO.	PQ34-113E		
Product Specification and Approval Sheet	Version	3	Page	2/3

5. Thermal Derating Curve



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



FUZETEC TECHNOLOGY CO., LTD.	NO.	PQ34-113E		BE
Product Specification and Approval Sheet		3	Page	3/3

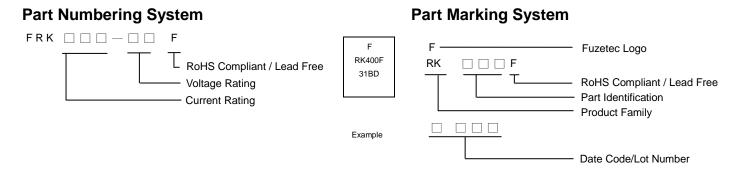
7. Material Specification

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



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.