FUZETEC TECHNOLOGY CO., LTD.

PQ34-114E

3

NO.

Product Specification and Approval Sheet Version

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Radial Leaded PTC Resettable Fuse : FRK500-60F

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 : 5.00A
- (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 Number	Hold	Trip	Max.Time to Trip		Max.	Rated	Тур.	Resistance	
	Current	Current			Current	Voltage	Power	Rміn	R1MAX
	Ін, А	Ιт, А	I, A	Time,S	IMAX, A	VMAX, VDC	Pd, W	Ohms	Ohms
FRK500-60F	5.00	10.00	25.0	28.0	40	60	5.00	0.012	0.050

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°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)



FRK500-60F Lead Size : 20AWG Φ 0.81 mm Diameter

Part	Α	В	С	D	E	F	
Number	Maximum	Maximum	Maximum Typical		Maximum	Typical	
FRK500-60F	24.10	29.00	10.2	7.6	3.00	1.4	

NOTE : Specification subject to change without notice.

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5. Thermal Derating Curve



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



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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.