Radial Leaded PTC Resettable Fuse : FRK065-60F

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 : 0.65A**
(e) **Maximum Operation Voltage : 60V_{DC}**
(f) **Temperature Range : -40℃ to 85℃**

2. Agency Recognition

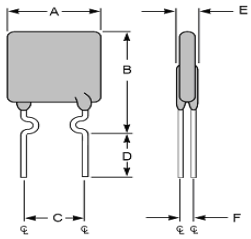
UL : Pending
C-UL: Pending
TÜV: Pending

3. Electrical Characteristics (23℃)

Part Number	Hold Current	Trip Current	Max.Time to Trip		Max. Current	Rated Voltage	Typ. Power	Resistance	
	I_H, A	I_T, A	I, A	Time,S	I_{MAX}, A	V_{MAX}, V_{DC}	Pd, W	R_{MIN} Ohms	$R1_{MAX}$ Ohms
FRK065-60F	0.65	1.30	8.0	1.0	40	60	1.25	0.250	0.720

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℃ still air environment.
R_{MIN}=Minimum device resistance at 23℃.
$R1_{MAX}$=Maximum device resistance at 23℃, 1 hour after tripping .
Physical specifications:
Lead material: Tin plated copper,24AWG.
Soldering characteristics:MIL-STD-202, Method 208E.
Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

4. Production Dimensions (millimeter)

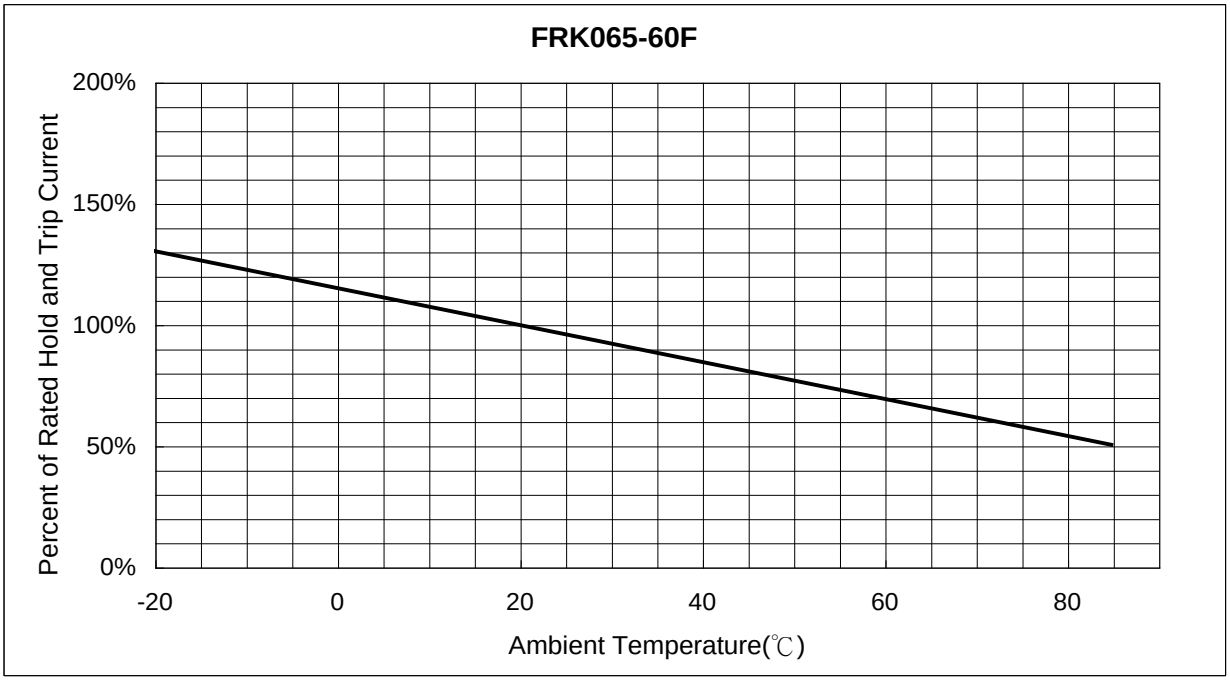


FRK065-60F
Lead Size : 24AWG
Φ 0.51 mm Diameter

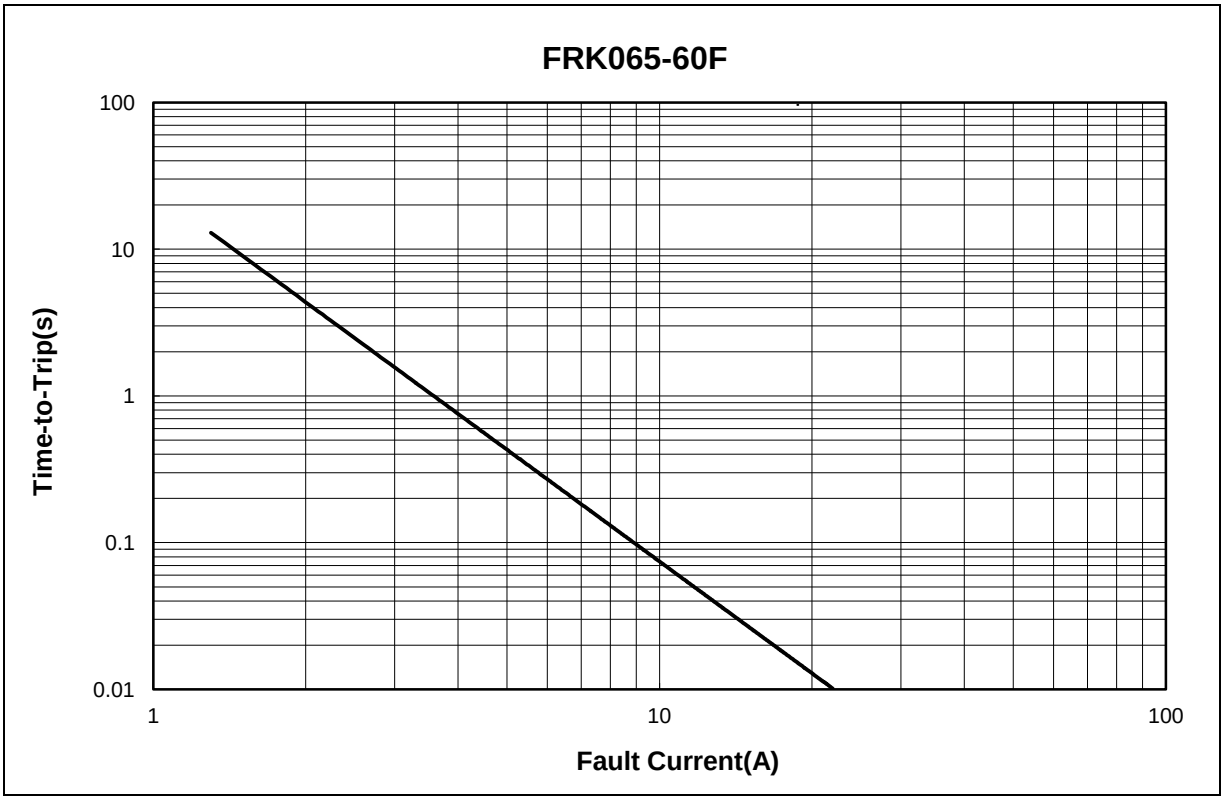
Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRK065-60F	7.11	12.20	5.1	7.6	3.56	1.1

NOTE : Specification subject to change without notice.

5. Thermal Derating Curve



6. Typical Time-To-Trip at 23℃



NOTE : Specification subject to change without notice.

7. Material Specification

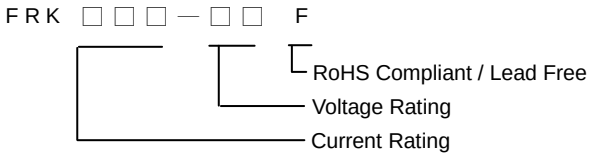
Lead material：Tin plated copper, 24 AWG.

Soldering characteristics:MIL-STD-202, Method 208E.

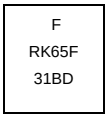
Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement

8. Part Numbering and Marking System

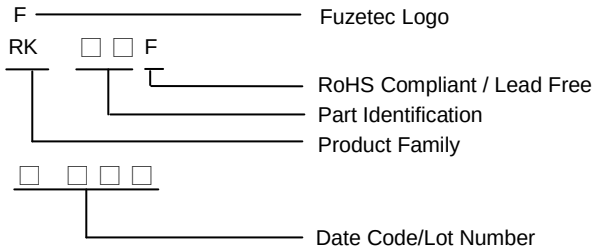
Part Numbering System



Part Marking System



Example



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.