Radial Leaded PTC Resettable Fuse: FRV040-240F

1. Summary

(a) RoHS Compliant (Lead Free) Product

(b) Applications: Line Voltage Power Supply, Transformer and Appliances

(c) Product Features: Low hold current, Solid state, Radial leaded product ideal for up to 265V_{AC/DC}

(d) Operation Current: 400mA

(e) Maximum Operating Voltage: 240V_{AC/DC}
 (f) Maximum Interrupt Voltage: 265V_{AC/DC}
 (g) Temperature Range: -40°C to 85°C

2. Agency Recognition

UL: File No. E211981 C-UL: File No. E211981 TÜV: File No. R50087018

3. Electrical Characteristics (23°C)

	Part Number	Hold	Trip	Max.Time	Max.	Rated	Max. Int.	Тур.	Resis	tance
		Current	Current	to Trip	Current	Voltage	Voltage	Power	RMIN	R1MAX
		IH, A	lτ, Α	at 5хIн,s	Імах, А	VMAX, VAC/DC	VI-MAX,VAC/DC	Pd, W	Ohms	Ohms
	FRV040-240F	0.40	0.90	24.0	5.5	240	265	2.0	0.60	1.90

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.

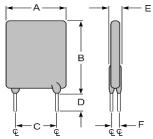
Physical specifications:

Lead material: Tin plated copper, 22AWG.

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

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

4. Production Dimensions (millimeter)

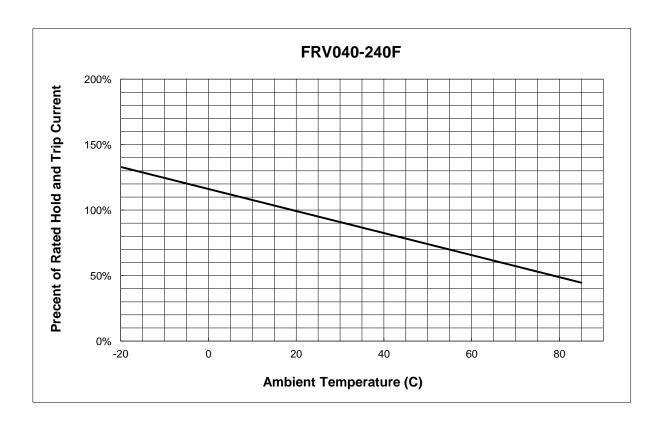


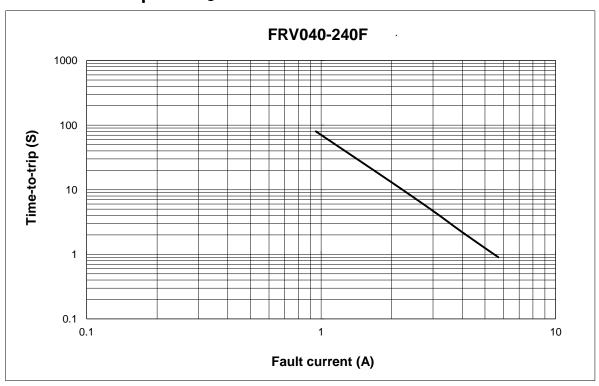
Lead Size: 22AWG

Part	Α	В	С	D	E	F	
Number Maximum		Maximum Typical		Minimum	Maximum	Typical	
FRV040-240F	11.5	19.5	5.1	7.6	3.8	1.8	

NOTE: Specification subject to change without notice.

5. Thermal Derating Curve





NOTE: Specification subject to change without notice.

7. Material Specification

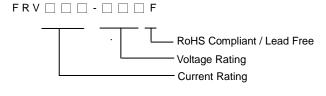
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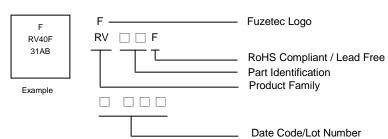
Insulating coating: Flame retardant epoxy, meets UL-94V-0 requirement

8. Part Numbering and Marking System

Part Numbering System



Part Marking System



Note: Font on Marking may look slightly different due to fine turnings of each Marking printer.

Warning: - Each product should be carefully evaluated and tested for their suitability of application.

- Operation beyond the specified maximum rating 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, including some inert material such as silicone based oil, lubricant and etc. Prolonged contact will damage the device performance.
- Additional protection mechanism are strongly recommended to be used in conjunction with the PPTC device for protection against abnormal or failure conditions.
- Avoid use of PPTC device in a constrained space such as potting material, housing and containers where have limited space to accommodate device thermal expansion and/or contraction.

NOTE: Specification subject to change without notice.