FUZETEC TECHNOLOGY CO., LTD.	NO. PQ24-102E			2E
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# Radial Leaded PTC Resettable Fuse: FRV005-240F

### 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<sub>AC/DC</sub>

(d) Operation Current: 50mA

(e) Maximum Operating Voltage: 240V<sub>AC/DC</sub> (f) Maximum Interrupt Voltage: 265V<sub>AC/DC</sub> (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°℃)

Dort	Hold	Trip	Max.Time	Max.	Rated	Max. Int.	Тур.	Resis	tance
Part	Current	Current	to Trip	Current	Voltage	Voltage	Power	RMIN	R1MAX
Number	IH, A	Iτ, Α	at 5хIн,S	Імах, А	VMAX, VAC/DC	VI-MAX,VAC/DC	Pd, W	Ohms	Ohms
FRV005-240F	0.05	0.12	15.0	1.0	240	265	0.70	18.50	65.00

I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23° c still air. I<sub>T</sub>=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.

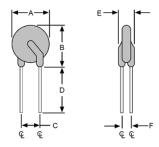
I MAX= Maximum fault current device can withstand without damage at rated voltage (V MAX). Pd=Typical power dissipated from device when in tripped state in 23°C still air environment. Rmin=Minimum device resistance at 23°C.

R1<sub>MAX</sub>=Maximum device resistance at 23°C, 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)



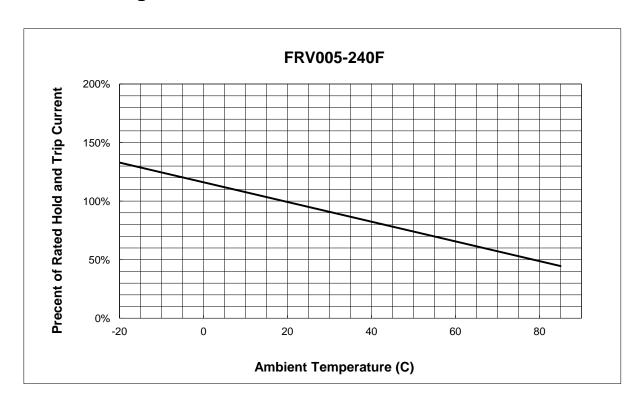
Lead Size: 24AWG Φ 0.51 mm Diameter

Part	Α	В	С	D	E	F
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRV005-240F	8.3	10.7	5.1	7.6	3.8	1.6

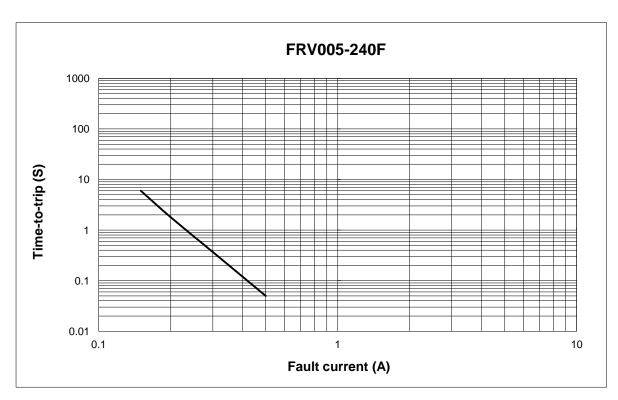
NOTE: Specification subject to change without notice.

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## 5. Thermal Derating Curve



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## 7. Material Specification

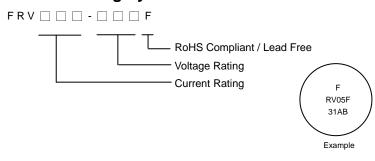
Lead material: Tin plated copper, 24AWG

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

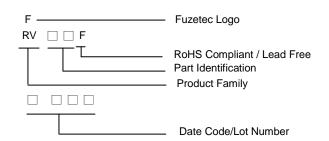
Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

## 8. Part Numbering and Marking System

#### **Part Numbering System**



#### **Part Marking System**



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.