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|  FUZETEC TECHNOLOGY CO., LTD. | NO. | PQ14-101E | | |
| | Product Specification and Approval Sheet | Version | 6 | Page |

Axial Leaded PTC Resettable Fuse: FVT Series

1. Summary

- (a) **RoHS Compliant (Lead Free) Product**
- (b) **Applications: Laptop Computer, Rechargeable battery packs, Lithium cell and battery packs**
- (c) **Product Features: Low profile, Solid state**
- (d) **Operation Current: 1.1A~2.4A**
- (e) **Maximum Voltage: 16V**
- (f) **Temperature Range : -40°C to 85°C**

2. Agency Recognition

UL: File No. E211981
C-UL: File No. E211981
TÜV: File No. R50004084

3. Electrical Characteristics (23°C)

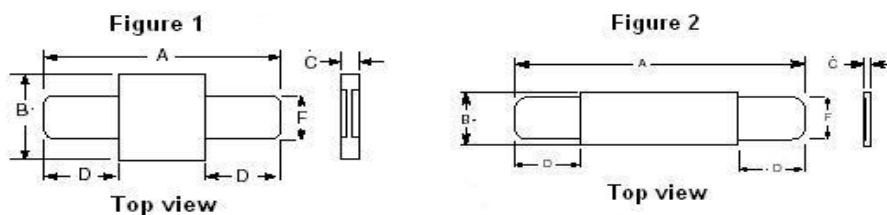
| Part Number | Hold Current | Trip Current | Max. Time to Trip | Rated Voltage | Maximum Current | Typical Power | Resistance | | |
|-----------------|--------------------|--------------------|-------------------------|------------------------------------|----------------------|--------------------|------------------|------------------|-------------------|
| | | | | | | | R _{MIN} | R _{MAX} | R _{1MAX} |
| | I _H , A | I _T , A | at 5xI _H , s | V _{MAX} , V _{dc} | I _{MAX} , A | P _d , W | Ω | Ω | Ω |
| FVT110F | 1.10 | 2.7 | 5.0 | 16 | 100 | 0.7 | 0.038 | 0.070 | 0.140 |
| FVT170F | 1.70 | 3.4 | 5.0 | 16 | 100 | 0.7 | 0.030 | 0.052 | 0.105 |
| FVT175F | 1.75 | 3.6 | 5.0 | 16 | 100 | 0.8 | 0.029 | 0.051 | 0.102 |
| FVT200F | 2.00 | 4.7 | 5.0 | 16 | 100 | 0.9 | 0.022 | 0.039 | 0.078 |
| FVT210GF | 2.10 | 4.7 | 5.0 | 16 | 100 | 1.2 | 0.018 | 0.030 | 0.060 |
| FVT240F | 2.40 | 5.9 | 5.0 | 16 | 100 | 1.0 | 0.014 | 0.026 | 0.052 |

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.
 I_T=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}).
 P_d=Typical power dissipated from device when in tripped state in 23°C still air environment.
 R_{MIN}=Minimum device resistance at 23°C.
 R_{1MAX}=Maximum device resistance at 23°C, 1 hour after tripping.
 Physical specifications: Lead material: 0.125mm nominal thickness, quarter-hard nickel.
 Insulating material: Polyester tape.

NOTE : Specification subject to change without notice.

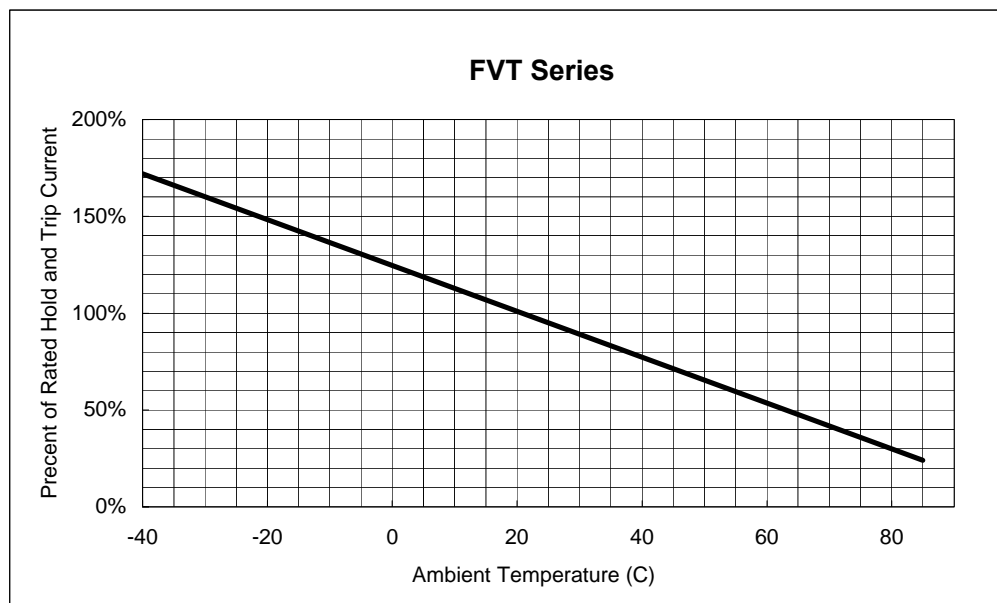
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4. Production Dimensions (millimeter)



| Part Number | Fig | A | | B | | C | | D | | F | |
|-------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FVT110F | 2 | 23.6 | 25.6 | 2.6 | 2.9 | 0.5 | 0.9 | 7.0 | 8.0 | 2.3 | 2.5 |
| FVT170F | 1 | 15.4 | 17.5 | 7.0 | 7.4 | 0.5 | 0.9 | 4.0 | 6.2 | 3.9 | 4.1 |
| FVT175F | 2 | 21.0 | 23.0 | 3.5 | 3.9 | 0.5 | 0.9 | 4.6 | 6.6 | 2.9 | 3.1 |
| FVT200F | 2 | 21.0 | 23.0 | 4.1 | 4.5 | 0.5 | 0.9 | 3.0 | 4.8 | 2.9 | 3.1 |
| FVT210GF | 2 | 21.0 | 23.0 | 4.9 | 5.2 | 0.5 | 0.9 | 4.1 | 5.5 | 3.9 | 4.1 |
| FVT240F | 2 | 23.8 | 26.0 | 4.9 | 5.3 | 0.5 | 0.9 | 3.5 | 5.5 | 3.9 | 4.1 |

5. Thermal Derating Curve

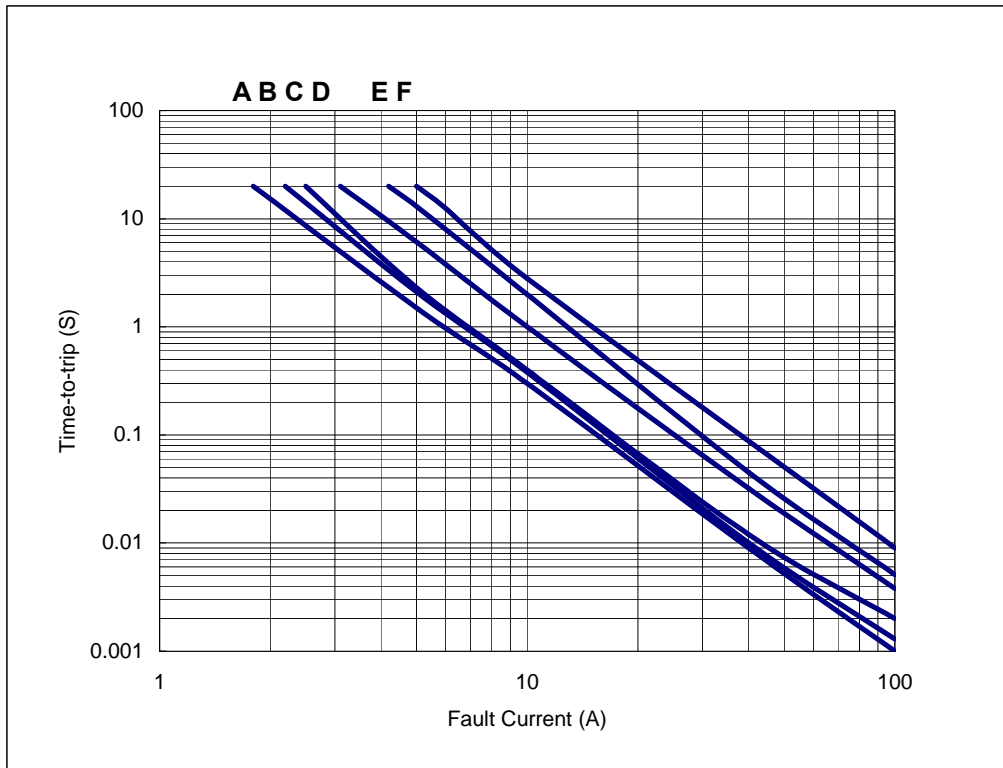


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6. Typical Time-To-Trip at 23°C

- A= FVT 110F
- B= FVT 170F
- C= FVT 175F
- D= FVT 200F
- E= FVT 210F
- F= FVT 240F



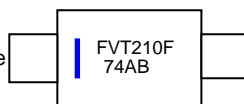
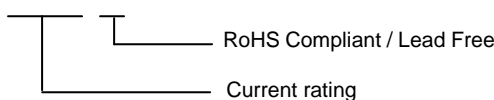
7. Material Specification

Lead material: 0.125 mm nominal thickness, quarter-hard nickel
 Insulating material: Polyester tape

8. Part Numbering and Marking System

Part Numbering System

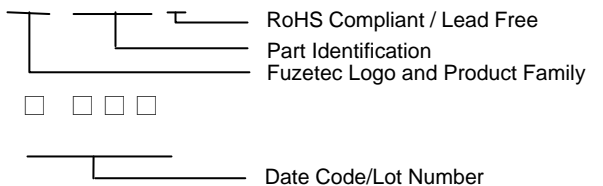
FVT □ □ □ F



Example

Part Marking System

FVT □ □ □ F



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.

NOTE : Specification subject to change without notice.