

## Axial Leaded PTC Resettable Fuse: FVT Series

### 1. Summary

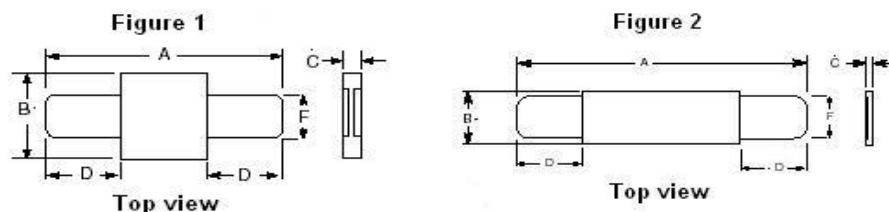
- (a) **RoHS Compliant (Lead Free) Product**
- (b) **Applications:** Laptop Computer, Rechargeable battery packs, Lithium cell and battery packs
- (c) **Product Features:** Low profile, Solid state
- (d) **Operation Current:** 1.1A~2.4A
- (e) **Maximum Voltage:** 16V
- (f) **Temperature Range :** -40°C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

### 2. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Rated Voltage	Maximum Current	Typical Power	Resistance		
							R <sub>MIN</sub>	R <sub>MAX</sub>	R <sub>1MAX</sub>
	I <sub>H</sub> ,A	I <sub>T</sub> ,A	at 5xI <sub>H</sub> , s	V <sub>MAX</sub> , V <sub>dc</sub>	I <sub>MAX</sub> , A	P <sub>d</sub> , 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<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<sub>MAX</sub>=Maximum voltage device can withstand without damage at its rated current.  
 I<sub>MAX</sub>= Maximum fault current device can withstand without damage at rated voltage (V<sub>MAX</sub>).  
 P<sub>d</sub>=Typical power dissipated from device when in tripped state in 23°C still air environment.  
 R<sub>MIN</sub>=Minimum device resistance at 23°C.  
 R<sub>1MAX</sub>=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.

### 3. Production Dimensions (millimeter)

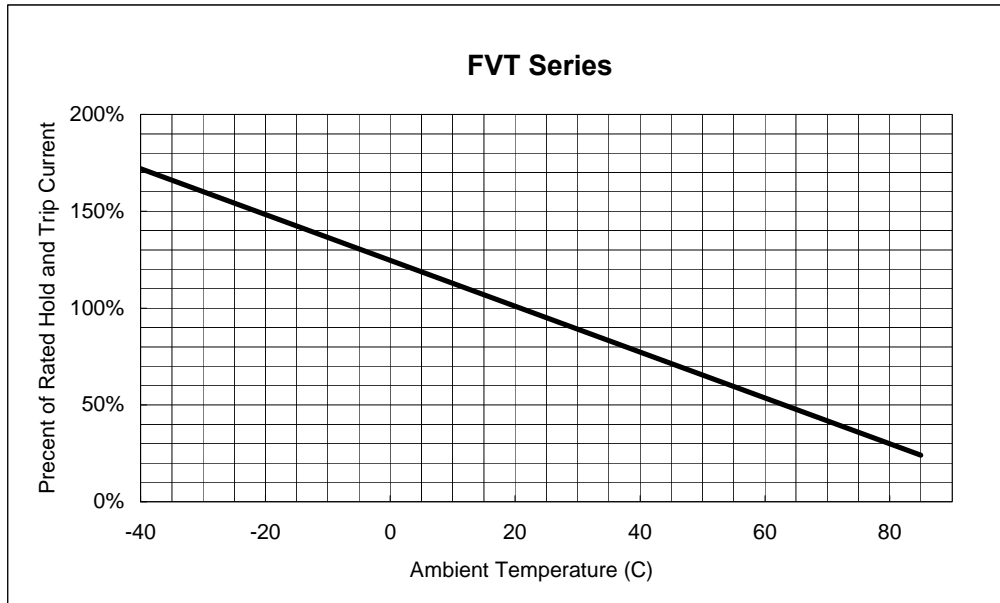


Part Number	Fig	A		B		C		D		F	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FVT110F	2	23.6	25.6	2.6	2.9	0.5	0.9	7.0	8.0	2.3	2.5
FVT170F	1	15.4	17.5	7.0	7.4	0.5	0.9	4.0	6.2	3.9	4.1
FVT175F	2	21.0	23.0	3.5	3.9	0.5	0.9	4.6	6.6	2.9	3.1
FVT200F	2	21.0	23.0	4.1	4.5	0.5	0.9	3.0	4.8	2.9	3.1
FVT210GF	2	21.0	23.0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

**NOTE :** Specification subject to change without notice.

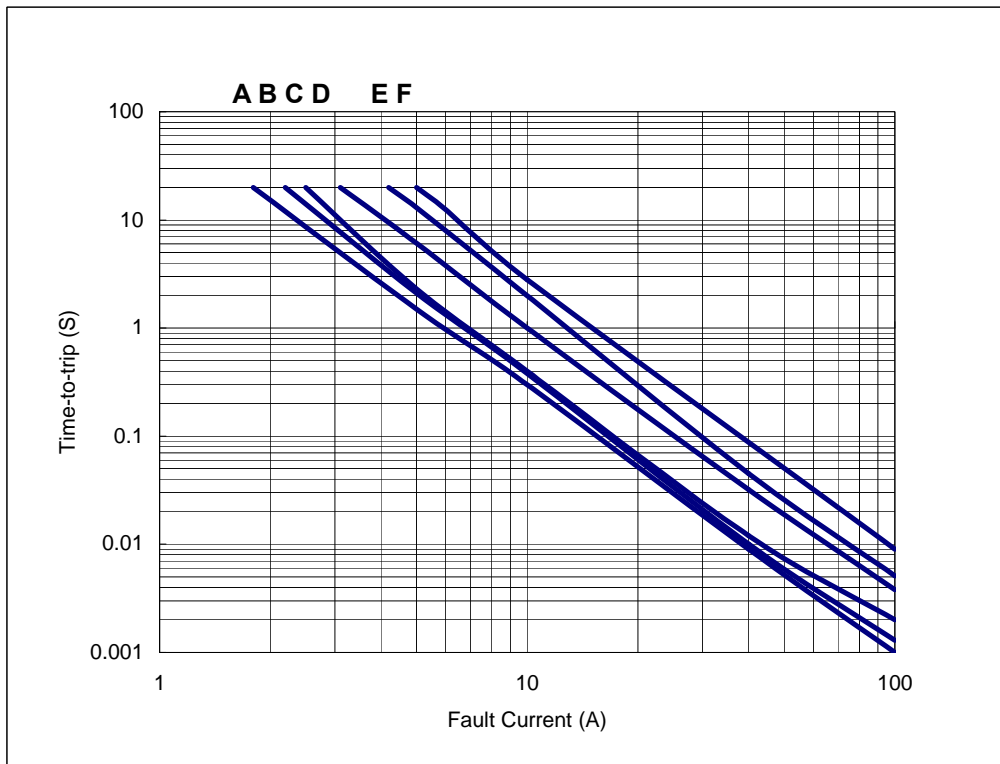


### 4. Thermal Derating Curve



### 5. 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



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### 6. Material Specification

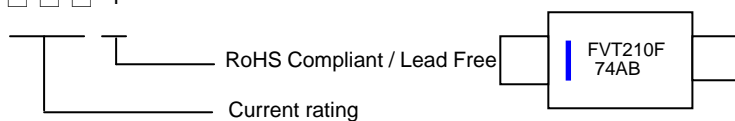
Lead material: 0.125 mm nominal thickness, quarter-hard nickel

Insulating material: Polyester tape

### 7. Part Numbering and Marking System

#### Part Numbering System

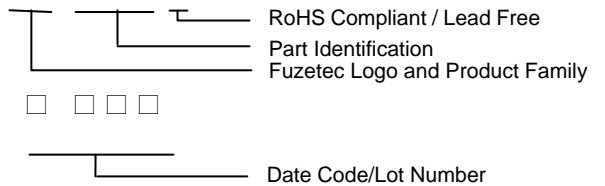
FVT □ □ □ F



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.