

 <b>FUZETEC TECHNOLOGY CO., LTD.</b>	<b>NO.</b>	<b>PQ07-101E</b>		
	<b>Product Specification and Approval Sheet</b>	<b>Version</b>	<b>8</b>	<b>Page</b>

## Axial Leaded PTC Resettable Fuse: FLR Series

### 1. Summary

- (a) **RoHS Compliant & Halogen Free**
- (b) **Applications: Rechargeable battery packs, Lithium cell and battery packs**
- (c) **Product Features: Low profile, Low resistance, High hold current, Solid state**
- (d) **Operation Current: 1.9A~9.0A**
- (e) **Maximum Voltage: 15V ~ 20VDC**
- (f) **Temperature Range : -40°C to 85°C**

### 2. Agency Recognition

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

\*FLR450F~FLR730F C-UL In Process.

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

Part Number	Hold Current I <sub>H</sub> , A	Trip Current I <sub>T</sub> , A	Max.Time to Trip at 5xI <sub>H</sub> ,S	Rated Voltage V <sub>MAX</sub> , VDC	Max. Current I <sub>MAX</sub> , A	Typical Power Pd, W	Resistance		
							R <sub>MIN</sub> Ohms	R <sub>MAX</sub> Ohms	R <sub>1MAX</sub> Ohms
FLR190F	1.9	3.9	5.0	15	100	1.2	0.039	0.072	0.102
FLR260F	2.6	5.8	5.0	15	100	2.5	0.020	0.042	0.063
FLR380F	3.8	8.3	5.0	15	100	2.5	0.013	0.026	0.037
FLR450F	4.5	8.9	5.0	20	100	2.5	0.011	0.020	0.028
FLR550F	5.5	10.5	5.0	20	100	2.8	0.009	0.016	0.022
FLR600F	6.0	11.7	5.0	20	100	2.8	0.007	0.014	0.019
FLR730F	7.3	14.1	5.0	20	100	3.3	0.006	0.012	0.015
FLR900F	9.0	16.7	5.0	20	100	3.8	0.006	0.010	0.014

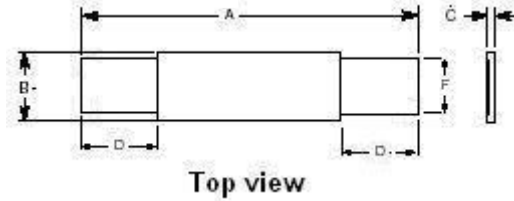
I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23°C still air.  
 I<sub>T</sub>=Trip current-minimum current at which the device will always trip at 23°C still air.  
 V<sub>MAX</sub>=Maximum voltage device can withstand without damage at its rated current.  
 I<sub>MAX</sub>= Maximum fault current device can withstand without damage at rated voltage (V<sub>MAX</sub>).  
 Pd=Maximum 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 23C, 1 hour after tripping.  
 Physical specifications:  
 Lead material:0.13mm nominal thickness, quarter-hard nickel.  
 Insulating material: Polyester tape.

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

2019/11/13

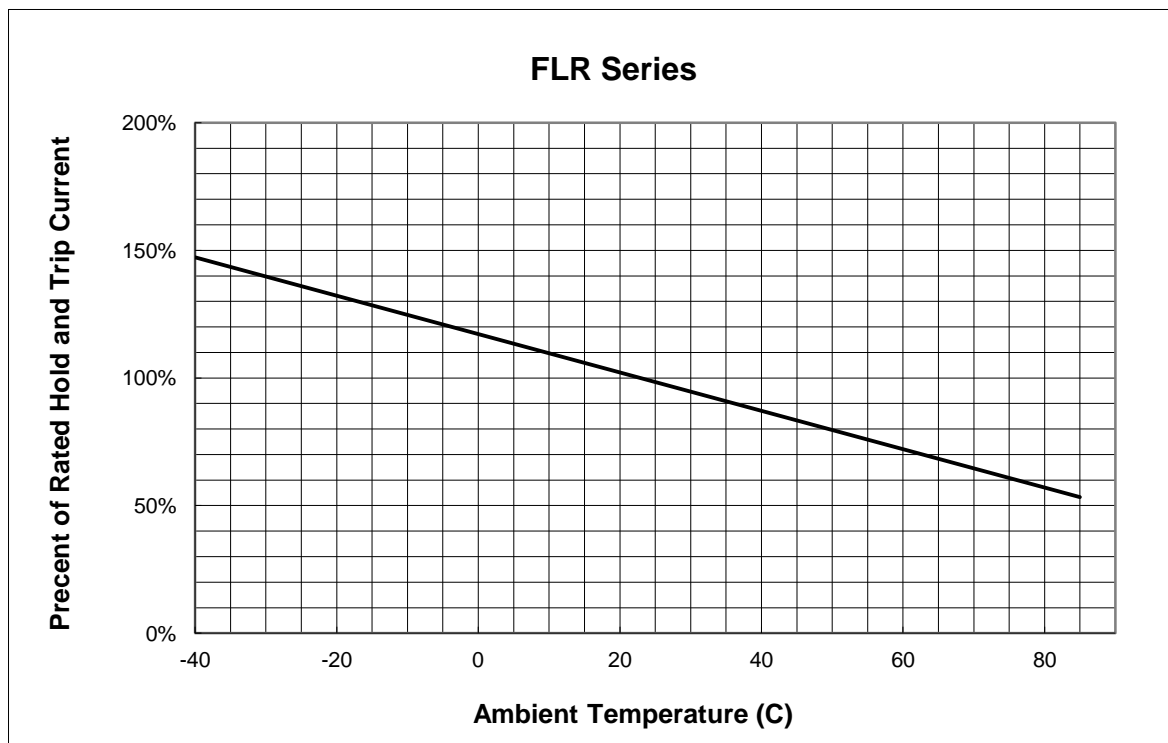


### 4. Production Dimensions (millimeter)



Part Number	A		B		C		D		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FLR190F	19.9	22.1	4.9	5.5	0.6	1.0	5.5	7.5	3.9	4.1
FLR260F	20.9	23.1	4.9	5.5	0.6	1.0	4.1	5.5	3.9	4.1
FLR380F	24.0	26.0	6.9	7.5	0.6	1.0	4.1	5.5	4.9	5.1
FLR450F	24.0	26.0	9.9	10.5	0.6	1.0	5.3	6.7	5.9	6.1
FLR550F	35.0	37.0	6.9	7.5	0.6	1.0	5.3	6.7	4.9	5.1
FLR600F	24.0	26.0	13.9	14.5	0.6	1.0	4.1	5.5	5.9	6.1
FLR730F	27.1	29.1	13.9	14.5	0.6	1.0	4.1	5.5	5.9	6.1
FLR900F	45.4	47.6	7.9	8.5	0.6	1.3	5.2	7.9	5.9	6.1

### 5. Thermal Derating Curve

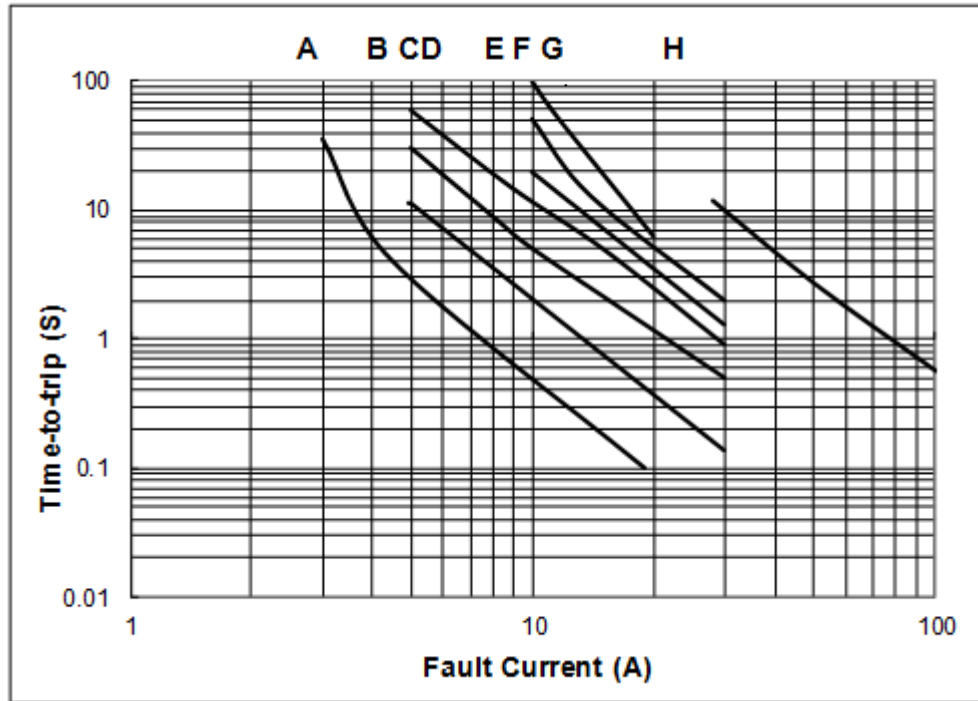


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### 6. Typical Time-To-Trip at 23°C

- A=FLR190F
- B=FLR260F
- C=FLR380F
- D=FLR450F
- E=FLR550F
- F=FLR600F
- G=FLR730F
- H=FLR900F

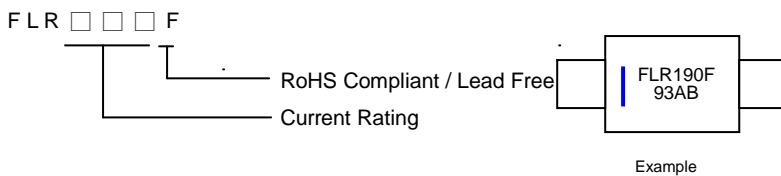


### 7. Material Specification

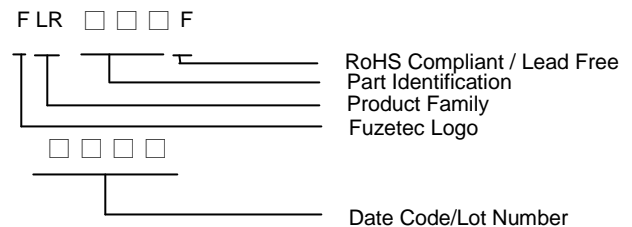
Lead material: 0.13 mm nominal thickness, quarter-hard nickel  
 Insulating material: Polyester tape

### 8. Part Numbering and Marking System

#### Part Numbering System



#### Part Marking System



- 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.