



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~7.3A**
- (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.

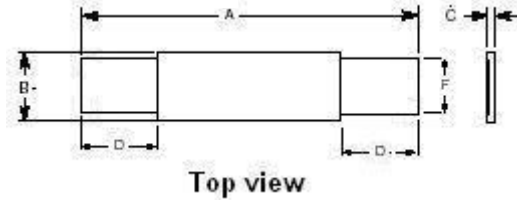
3. Electrical Characteristics (23°C)

Part Number	Hold Current I _H , A	Trip Current I _T , A	Max.Time to Trip at 5xI _H ,S	Rated Voltage V _{MAX} , VDC	Max. Current I _{MAX} , A	Typical Power Pd, W	Resistance		
							R _{MIN} Ohms	R _{MAX} Ohms	R _{1MAX} 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

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}).
Pd=Maximum 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 23C, 1 hour after tripping.
Physical specifications:
Lead material:0.13mm nominal thickness, quarter-hard nickel.
Insulating material: Polyester tape.

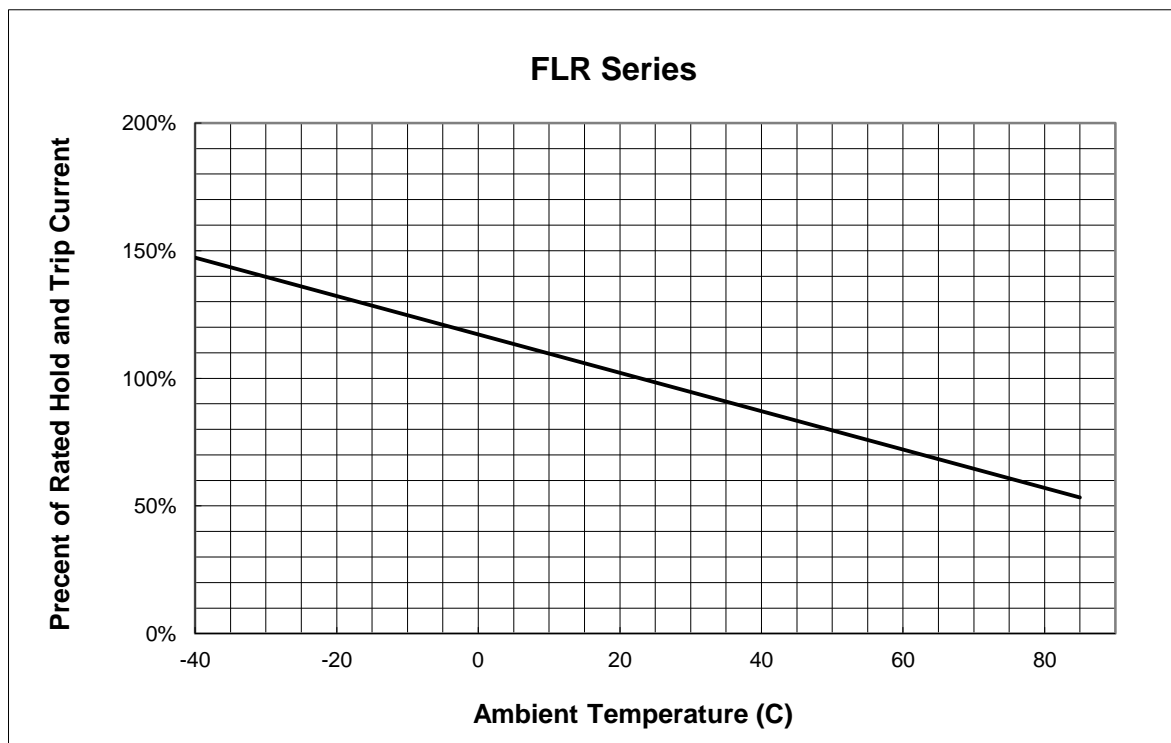


4. Production Dimensions (millimeter)



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

5. Thermal Derating Curve

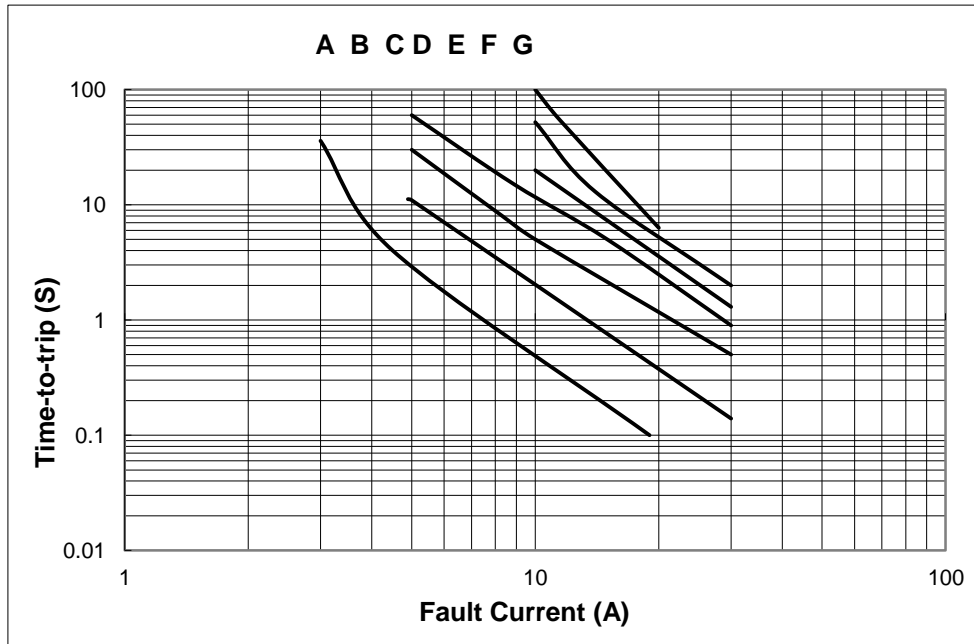


NOTE : Specification subject to change without notice.



6. Typical Time-To-Trip at 23°C

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

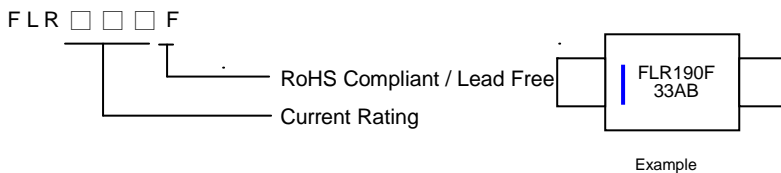


7. Material Specification

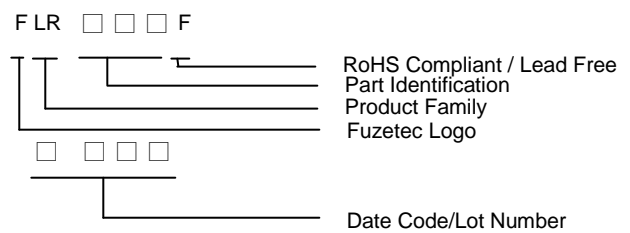
Lead material: 0.13 mm nominal thickness, quarter-hard nickel
 Insulating material: Polyester tape

8. Part Numbering and Marking System

Part Numbering System



Part Marking System



Warning: -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.