

 FUZETEC	NO.	PQ07-01E		
	Product Specification and Approval Sheet	Version	3	Page

Axial Leaded PTC Resettable Fuse: FLR Series

1. Summary

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

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 I_H , A	Trip Current I_T , A	Rated Voltage V_{MAX} , Vdc	Maximum Current I_{MAX} , A	Typical Power P_d , W	Resistance Tolerance		
						R_{MIN}	R_{MAX}	$R_{I_{MAX}}$
						ohms	ohms	ohms
FLR190	1.9	3.9	15	100	1.2	0.039	0.072	0.102
FLR190S	1.9	3.9	15	100	1.2	0.039	0.072	0.102
FLR260	2.6	5.8	15	100	2.5	0.020	0.042	0.063
FLR260S	2.6	5.8	15	100	2.5	0.020	0.042	0.063
FLR380	3.8	8.3	15	100	2.5	0.013	0.026	0.037
FLR450	4.5	8.9	20	100	2.5	0.011	0.020	0.028
FLR550	5.5	10.5	20	100	2.8	0.009	0.016	0.022
FLR600	6.0	11.7	20	100	2.8	0.007	0.014	0.019
FLR730	7.3	14.1	20	100	3.3	0.006	0.012	0.015
FLR900	9.0	16.7	20	100	3.8	0.006	0.010	0.014

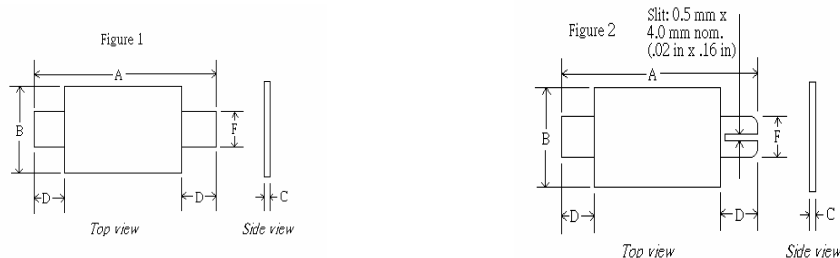
I_H =Hold current-maximum current at which the device will not trip at 23 °C still air.
 I_T =Trip current-minimum current at which the device will always trip at 23 °C still air.
 V_{MAX} =Maximum voltage device can withstand without damage at its rated current.
 I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).
 P_d =Maximum power dissipated from device when in tripped state in 23 °C still air environment.
 R_{MIN} =Minimum device resistance at 23 °C.
 $R_{I_{MAX}}$ =Maximum device resistance at 23°C, 1 hour after tripping.
 Physical specifications:
 Lead material:0.13mm nominal thickness, quarter-hard nickel.
 Insulating material Polyester tape.

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NOTE : Specification subject to change without notice.

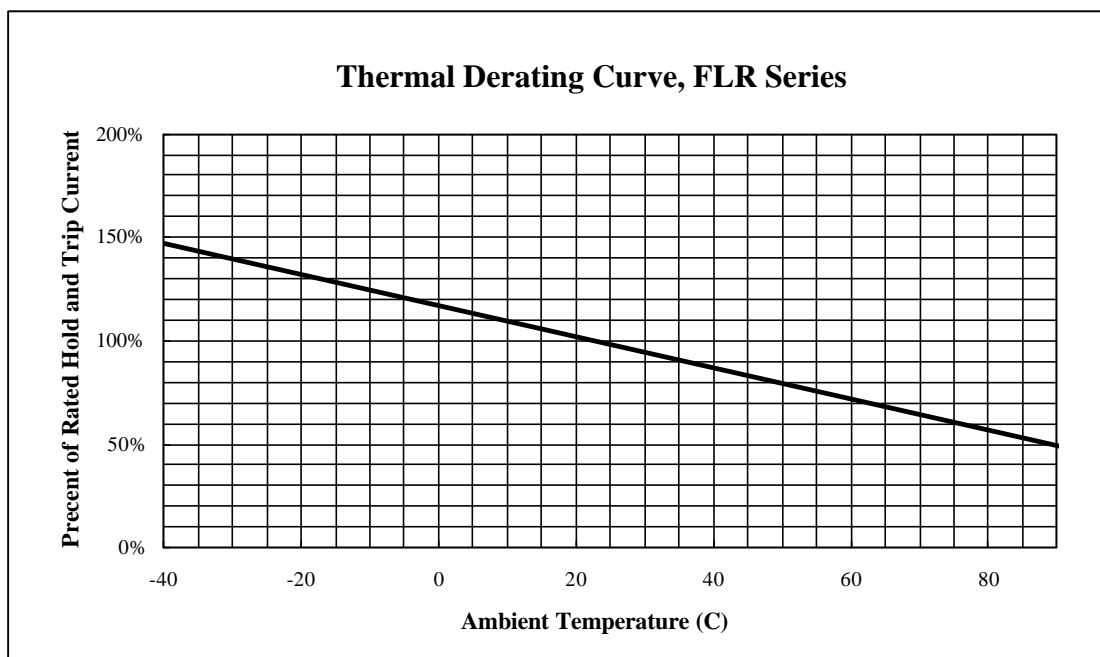


4. Production Dimensions (millimeter)



Part Number	Fig	A		B		C		D		F	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FLR190	1	19.9	22.1	4.9	5.5	0.6	1.0	5.5	7.5	3.9	4.1
FLR190S	2	19.9	22.1	4.9	5.5	0.6	1.0	5.5	7.5	3.9	4.1
FLR260	1	20.9	23.1	4.9	5.5	0.6	1.0	4.1	5.5	3.9	4.1
FLR260S	2	20.9	23.1	4.9	5.5	0.6	1.0	4.1	5.5	3.9	4.1
FLR380	1	24.0	26.0	6.9	7.5	0.6	1.0	4.1	5.5	4.9	5.1
FLR450	1	24.0	26.0	9.9	10.5	0.6	1.0	5.3	6.7	5.9	6.1
FLR550	1	35.0	37.0	6.9	7.5	0.6	1.0	5.3	6.7	4.9	5.1
FLR600	1	24.0	26.0	13.9	14.5	0.6	1.0	4.1	5.5	5.9	6.1
FLR730	1	27.1	29.1	13.9	14.5	0.6	1.0	4.1	5.5	5.9	6.1
FLR900	1	45.4	47.6	7.9	8.9	0.7	1.3	4.6	6.2	5.9	6.1

5. Thermal Derating Curve



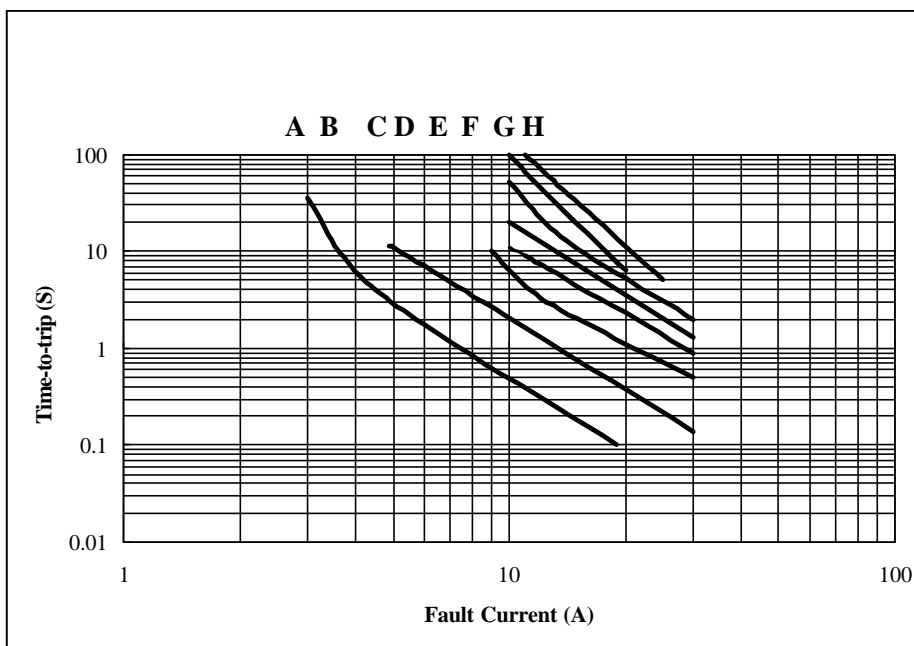
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6. Typical Time-To-Trip at 23

- A=FLR190/FLR190S
- B=FLR260/FLR260S
- C=FLR380
- D=FLR450
- E=FLR550
- F=FLR600
- G=FLR730
- H=FLR900

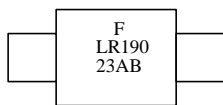
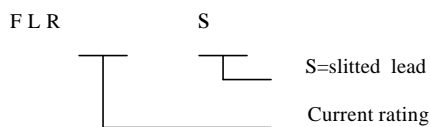


7. Material Specification

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

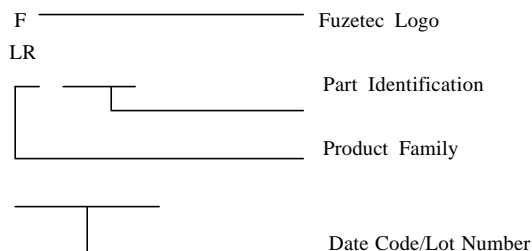
8. Part Numbering and Marking System

Part Numbering System



Example

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.