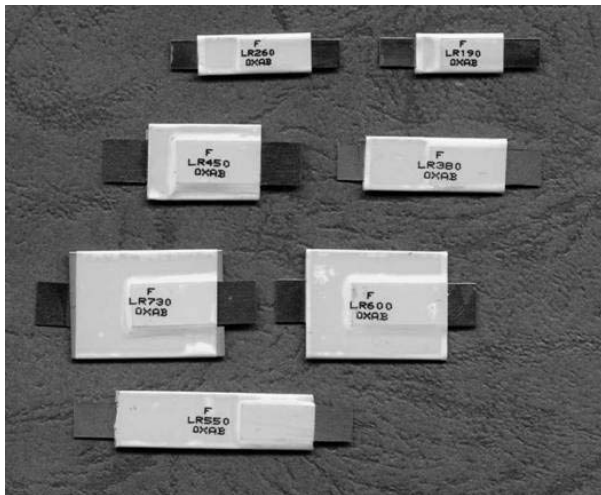


Axial Leaded PTC FLR Series



Application:

Rechargeable battery packs
Lithium cell and battery packs

Product Features:

Low profile, Solid state

Operation Current: 1.9A~7.3 A

Maximum Voltage: 15V& 20V

Temperature Range: -40°C to 85°C

Agency Recognition: UL (E211981)

C-UL (E211981)

TÜV (R50004084)

Electrical Characteristics(23°C)

| Part Number | Hold Current | Trip Current | Rated Voltage | Maximum Current | Typical Power | Resistance Tolerance | | |
|----------------|--------------|--------------|---------------|-----------------|---------------|----------------------|------------------|-------------------|
| | | | | | | R _{MIN} | R _{MAX} | R _{1MAX} |
| | | | | | | Ω | Ω | Ω |
| 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 |

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 the 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:

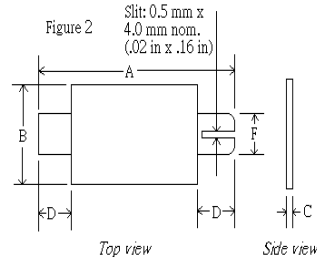
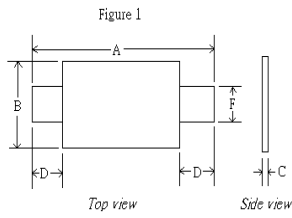
Lead material:0.13mm nominal thickness, quarter-hard nickel.

Insulating material: Polyester tape.

Axial Leaded PTC FLR Series

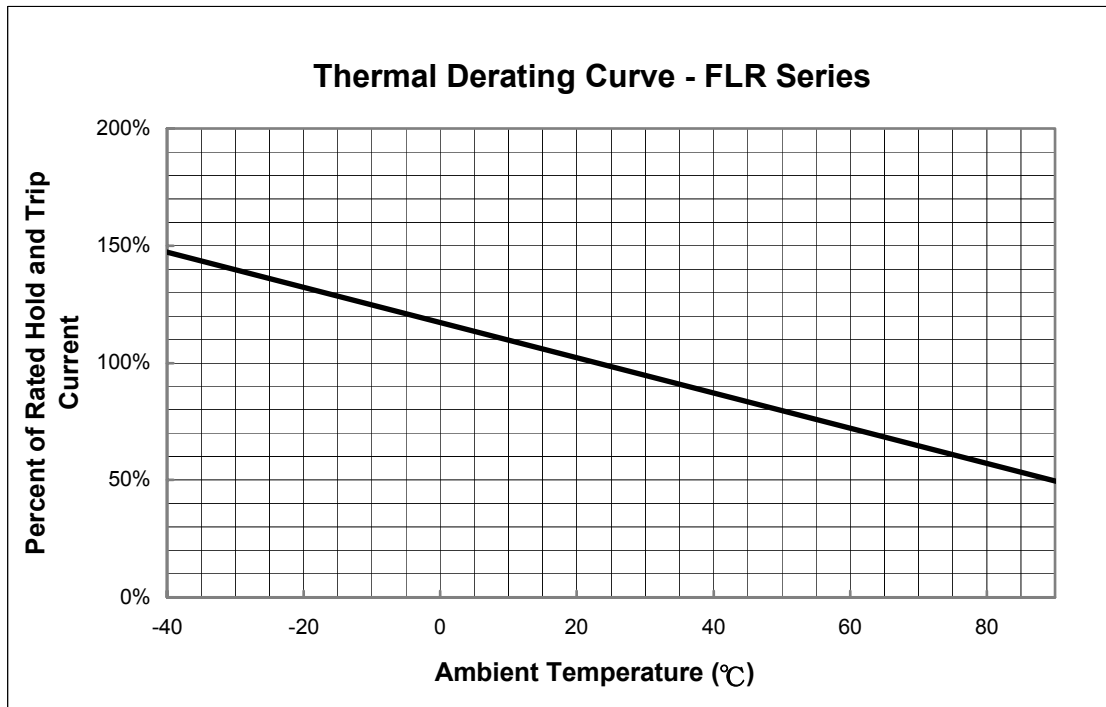


FLR Product Dimensions (Millimeters)



| 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 |

Thermal Derating Curve

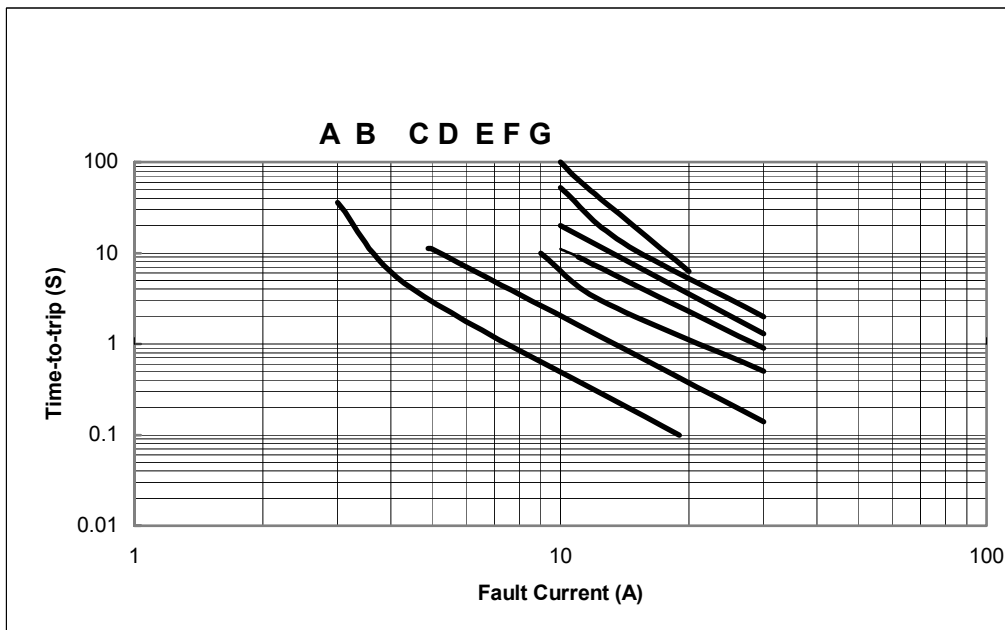


Axial Leaded PTC FLR Series



Typical Time-To-Trip at 23°C

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

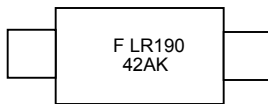


Part Numbering System

FLR □ □ □ - S

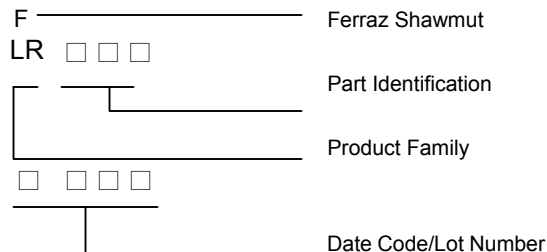


S=slitted lead
Current rating



Example

Part Marking System



Standard Package

| P/N | Pcs /Bag |
|---------|----------|
| FLR190 | 1K |
| FLR190S | 1K |
| FLR260 | 1K |
| FLR260S | 1K |
| FLR380 | 1K |

| P/N | Pcs /Bag |
|--------|----------|
| FLR450 | 500 |
| FLR550 | 500 |
| FLR600 | 500 |
| FLR730 | 500 |

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.