

## FEATURES

- Low profile, Solid State
- Application: Rechargeable battery packs  
Lithium cell and battery packs
- Operation Current: 1.9A ~ 7.3A
- Maximum Voltage: 15V&20V
- Temperature Range: -40°C to 85°C

## FEATURES

- UL (E211981)
- C-UL (E211981)
- TÜV (R50004084)

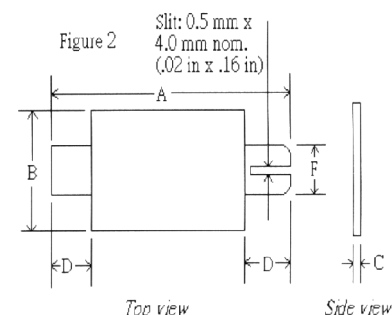
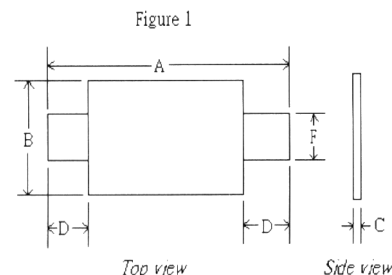
## ELECTRICAL CHARACTERISTIC (23°C)

| Part Number | Hold Current       | Trip Current       | Maximum time to trip      | Maximum Current      | Rated Voltage          | Typical Power      | Resistance Tolerance |                  |                   |
|-------------|--------------------|--------------------|---------------------------|----------------------|------------------------|--------------------|----------------------|------------------|-------------------|
|             |                    |                    |                           |                      |                        |                    | 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> , sec | I <sub>MAX</sub> , A | V <sub>MAX</sub> , Vdc | P <sub>d</sub> , W | OHMS                 | OHMS             | OHMS              |
| FLR190F     | 1.9                | 3.9                | 5.0                       | 100                  | 15                     | 1.2                | 0.039                | 0.072            | 0.102             |
| FLR260F     | 2.6                | 5.8                | 5.0                       | 100                  | 15                     | 2.5                | 0.020                | 0.042            | 0.630             |
| FLR380F     | 3.8                | 8.3                | 5.0                       | 100                  | 15                     | 2.5                | 0.013                | 0.026            | 0.370             |
| FLR450F     | 4.5                | 8.9                | 5.0                       | 100                  | 20                     | 2.5                | 0.011                | 0.020            | 0.028             |
| FLR550F     | 5.5                | 10.5               | 5.0                       | 100                  | 20                     | 2.8                | 0.009                | 0.016            | 0.022             |
| FLR600F     | 6.0                | 11.7               | 5.0                       | 100                  | 20                     | 2.8                | 0.007                | 0.014            | 0.019             |
| FLR730F     | 7.3                | 14.1               | 5.0                       | 100                  | 20                     | 3.3                | 0.006                | 0.012            | 0.015             |

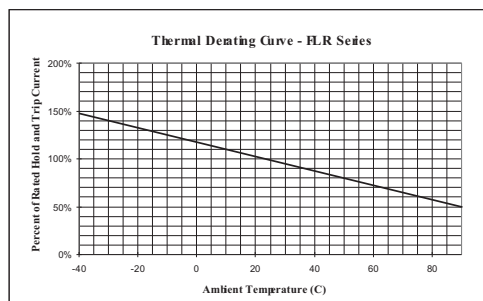
I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23°C still air.  
I<sub>T</sub>=Trip current-maximum current at which the device will always trip at 23°C still air.  
V<sub>MAX</sub>=Maximum voltage device can withstand without damage at its rated current.  
I<sub>MAX</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 the 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 materials: 0.13mm nominal thickness, quarter-hard nickel.  
Insulating material: Polyester tape.

## FLR PRODUCT DIMENSIONS (MILLIMETERS)

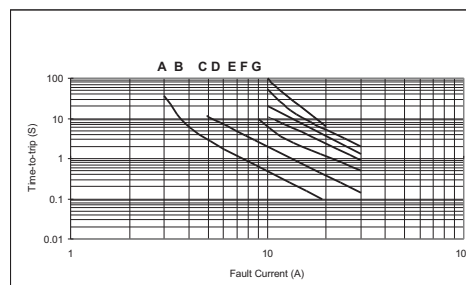
| Part Number | Fig | A    |      | B    |      | C   |     | D   |     | F   |     |
|-------------|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|
|             |     | Min  | Max  | Min  | Max  | Min | Max | Min | Max | Min | Max |
| FLR190F     | 1   | 19.9 | 22.1 | 4.9  | 5.5  | 0.6 | 1.0 | 5.5 | 7.5 | 3.9 | 4.1 |
| FLR260F     | 1   | 20.9 | 23.1 | 4.9  | 5.5  | 0.6 | 1.0 | 4.1 | 5.5 | 3.9 | 4.1 |
| FLR380F     | 1   | 24.0 | 26.0 | 6.9  | 7.5  | 0.6 | 1.0 | 4.1 | 5.5 | 4.9 | 5.1 |
| FLR450F     | 1   | 24.0 | 26.0 | 9.9  | 10.5 | 0.6 | 1.0 | 5.3 | 6.7 | 5.9 | 6.1 |
| FLR550F     | 1   | 35.0 | 37.0 | 6.9  | 7.5  | 0.6 | 1.0 | 5.3 | 6.7 | 4.9 | 5.1 |
| FLR600F     | 1   | 24.0 | 26.0 | 13.9 | 14.5 | 0.6 | 1.0 | 4.1 | 5.5 | 5.9 | 6.1 |
| FLR730F     | 1   | 27.1 | 29.1 | 13.9 | 14.5 | 0.6 | 1.0 | 4.1 | 5.5 | 5.9 | 6.1 |



## THERMAL DERATING CURVE



## TYPICAL TIME-TO-TRIP AT 23°C



A = FLR190  
B = FLR260  
C = FLR380  
D = FLR450  
E = FLR550  
F = FLR600  
G = FLR730

NOTE: All Specification subject to change without notice.