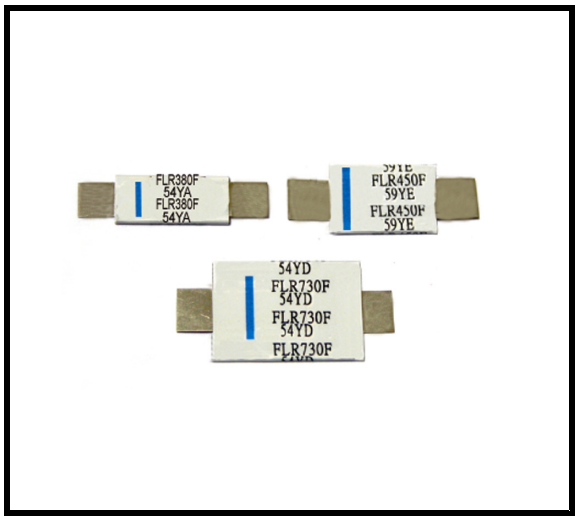
FLR Series



RoHS Compliant & Halogen Free

RoHS 2002/95/EC | HF Halogen Free

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_{DC}

Temperature Range: -40℃ to 85℃

Agency Recognition: UL (E211981)
*C-UL (E211981)
TÜV (R50004084)

Electrical Characteristics(23℃)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Rated Voltage	Max. Current	Typical Power	Resistance		
							R_{MIN}	R_{MAX}	$R1_{MAX}$
	I_H, A	I_T, A	at 5xI_H, s	V_{MAX}, V_{DC}	I_{MAX}, A	Pd, W	Ohms	Ohms	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℃ still air.
I_T=Trip current-minimum current at which the device will always trip at 23℃ 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 (Vmax).
Pd= Typical power dissipated from device when in the tripped state in 23℃ still air environment.
R_{MIN}=Minimum device resistance at 23℃.
R_{MAX}= Maximum device resistance at 23℃.
$R1_{MAX}$=Maximum device resistance at 23℃, 1 hour after tripping.
Physical specifications:
Lead material:0.13mm nominal thickness, quarter-hard nickel.
Insulating material: Polyester tape.
*NOTE : C-UL is not applied for FLR450 ~ FLR730.

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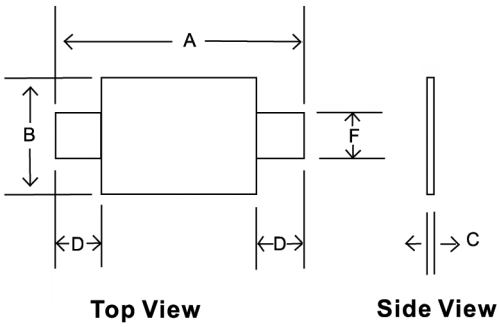
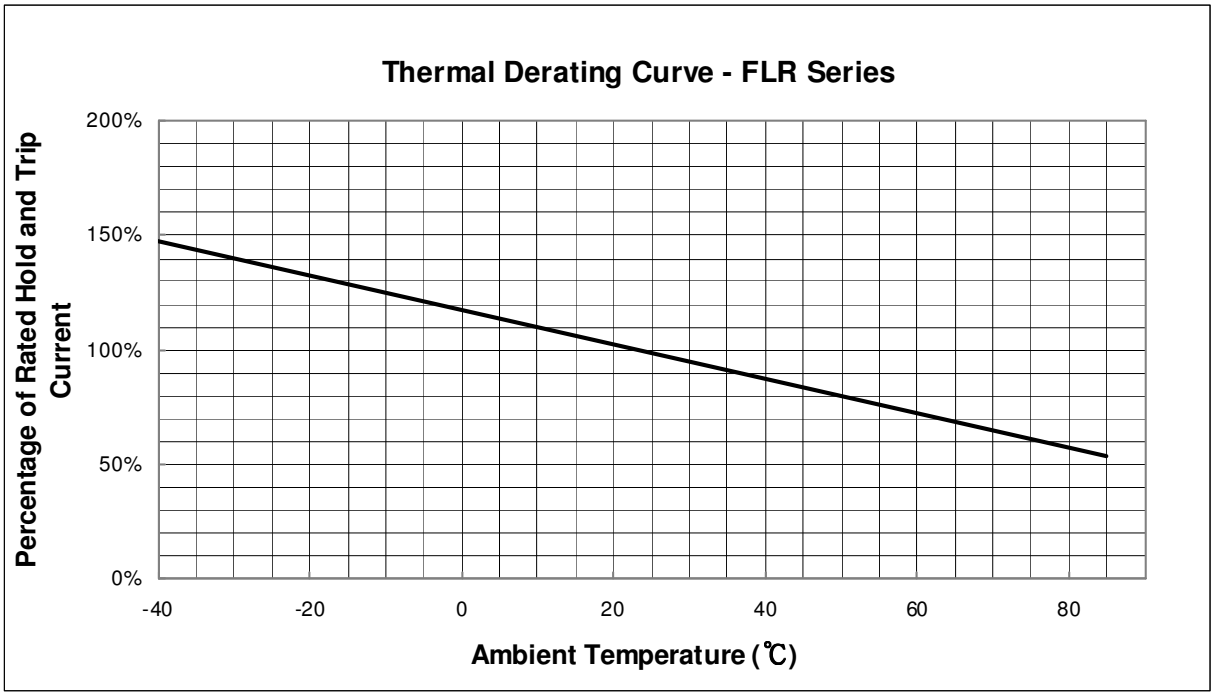
III - Product – Axial Leaded PTC

FLR Product 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

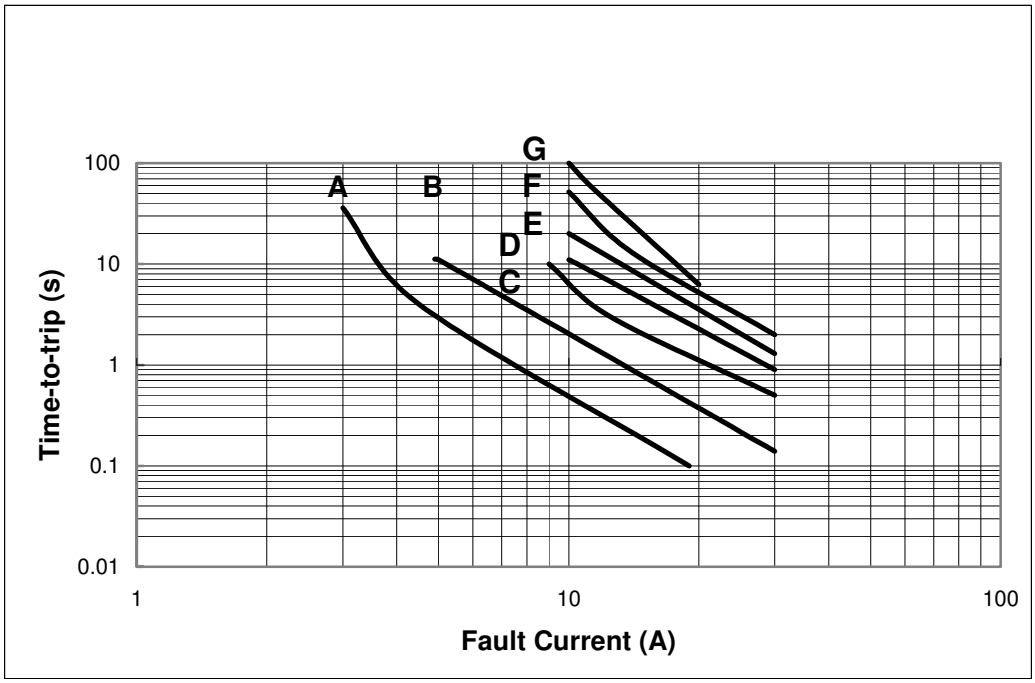
Thermal Derating Curve



III - Product – Axial Leaded PTC

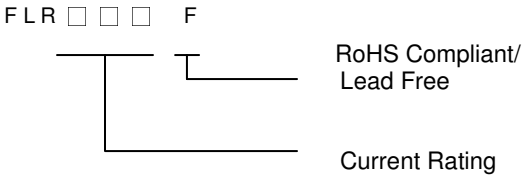
Typical Time-To-Trip at 23℃

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

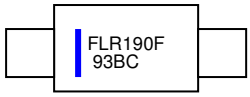


D

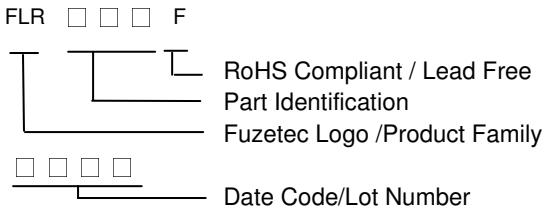
Part Numbering System



Part Marking System



Example



Standard Package

P/N	Pcs /Bag
FLR190F	1K
FLR260F	1K
FLR380F	1K
FLR450F	500

P/N	Pcs /Bag
FLR550F	500
FLR600F	500
FLR730F	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.

NOTE : All Specifications subject to change without notice.