Axial Leaded PTC Resettable Fuse : FLT Series

1. Summary

(a) **RoHS Compliant (Lead Free) Product**
(b) **Applications : Rechargeable battery packs, Lithium cell and battery packs**
(c) **Product Features : Low profile, Solid state**
(d) **Operation Current : 0.7A~3.4A**
(e) **Maximum Voltage : 24V**
(f) **Temperature Range : -40℃ to 85℃**

2. Agency Recognition

UL : File No. E211981
C-UL: File No. E211981
TUV: File No. R50004084

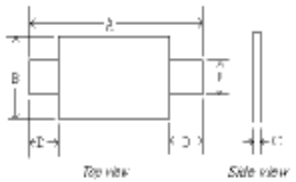
3. Electrical Characteristics (23℃)

Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Resistance Tolerance		
						R_{MIN}	R_{MAX}	$R1_{MAX}$
	I_H,A	I_T,A	V_{MAX}, Vdc	I_{MAX}, A	Pd, W	ohms	ohms	ohms
FLT070F	0.7	1.5	24	100	1.1	0.100	0.200	0.340
FLT100F	1.0	2.5	24	100	1.5	0.070	0.130	0.260
FLT180F	1.8	3.8	24	100	2.0	0.040	0.068	0.120
FLT190F	1.9	4.2	24	100	1.9	0.030	0.057	0.100
FLT260F	2.6	5.2	24	100	2.3	0.025	0.042	0.076
FLT300F	3.0	6.3	24	100	2.0	0.015	0.031	0.055
FLT310F	3.1	6.0	24	100	2.5	0.018	0.030	0.055
FLT340F	3.4	6.8	24	100	2.7	0.016	0.027	0.050

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 (V_{MAX}).
Pd=Maximum power dissipated from device when in tripped state in 23℃ still air environment.
R_{MIN}=Minimum 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.

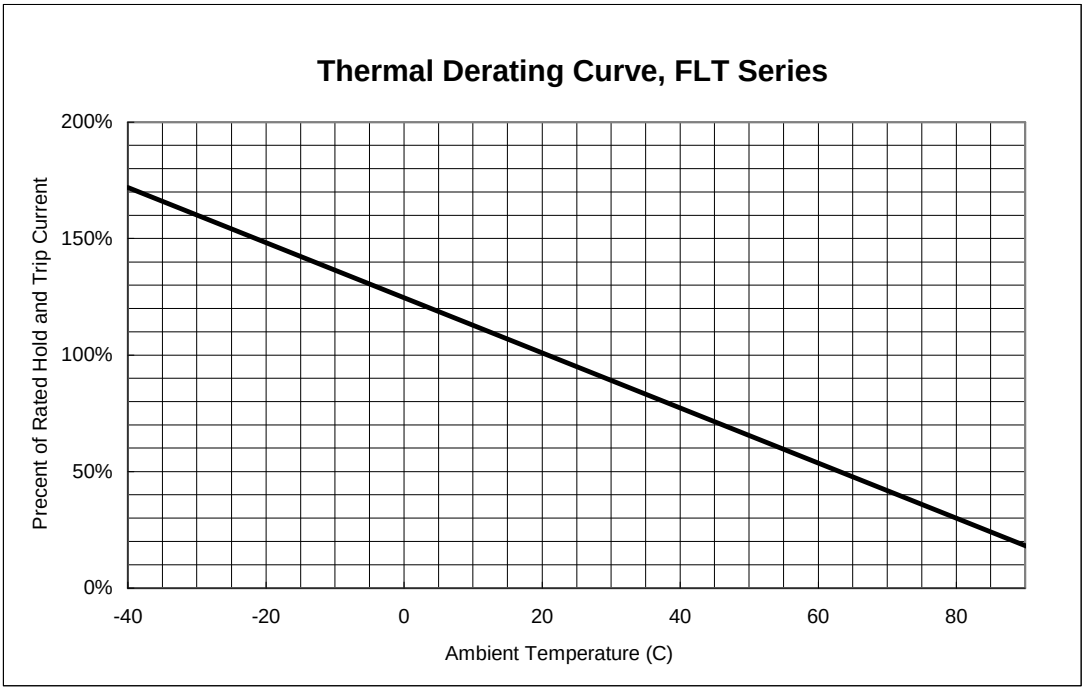
NOTE : Specification subject to change without notice.

4. Production Dimensions (millimeter)



Part Number	A		B		C		D		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FLT070F	19.9	22.1	4.9	5.2	0.7	1.2	5.5	7.5	3.9	4.1
FLT100F	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
FLT180F	24.0	26.0	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
FLT190F	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4
FLT260F	24.0	26.0	10.8	11.9	0.6	1.0	5.0	7.0	5.9	6.1
FLT300F	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	6.0	6.6
FLT310F	24.0	26.0	14.8	15.9	0.6	1.0	5.0	7.0	5.9	6.1
FLT340F	24.0	26.0	14.8	15.9	0.6	1.0	4.0	5.0	5.9	6.1

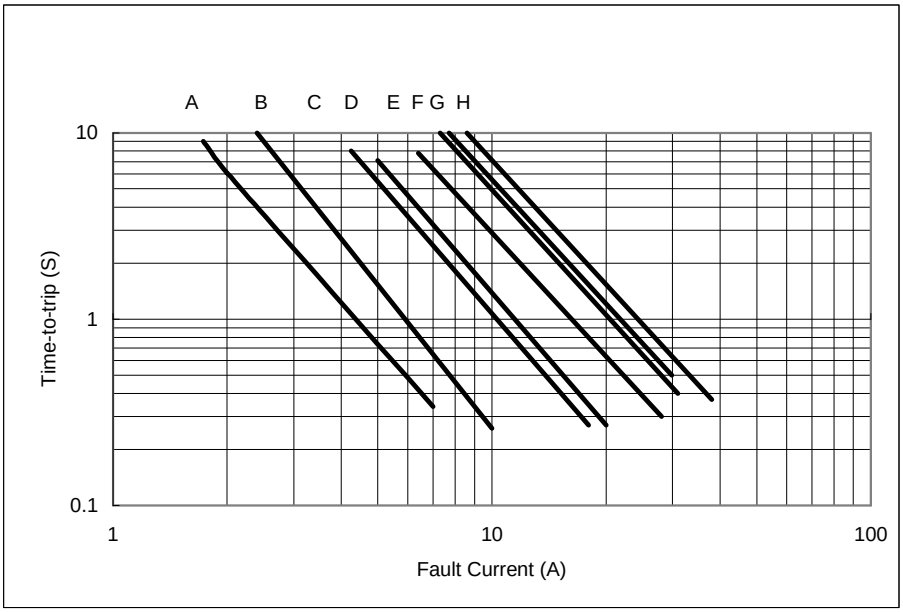
5. Thermal Derating Curve



NOTE : Specification subject to change without notice.

6. Typical Time-To-Trip at 23℃

A=FLT070F
B=FLT100F
C=FLT180F
D=FLT190F
E=FLT260F
F=FLT300F
G=FLT310F
H=FLT340F

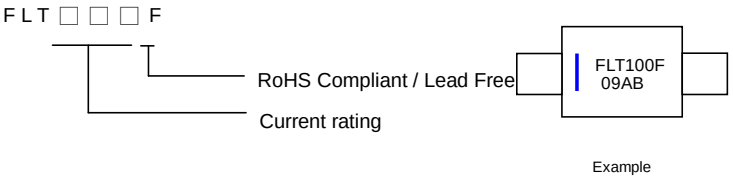


7. Material Specification

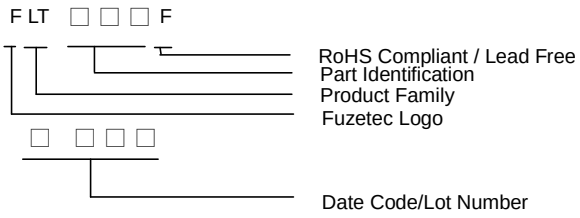
Lead material: 0.13 mm nominal thickness, quarter-hard nickel
Insulating material:Polyester tape

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.

NOTE : Specification subject to change without notice.