

 FUZETEC	NO.	PQ06-01E		
	Product Specification and Approval Sheet	Version	2	Page

Axial Leaded PTC Resettable Fuse : FLT Series

1. Summary

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

2. Agency Recognition

UL : File No. E211981
 C-UL: File No. E211981
 TÜV: File No. R3-50004084

3. Electrical Characteristics (23 °C)

Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Resistance Tolerance		
	I_H, A	I_T, A	V_{MAX}, Vdc	I_{MAX}, A	Pd, W	R_{MIN}	R_{MAX}	R_{1MAX}
						ohms	ohms	ohms
FLT070	0.7	1.5	24	100	1.1	0.100	0.200	0.340
FLT070S	0.7	1.5	24	100	1.1	0.100	0.200	0.340
FLT100	1.00	2.5	24	100	1.5	0.070	0.130	0.260
FLT100S	1.00	2.5	24	100	1.5	0.070	0.130	0.260
FLT180	1.8	3.8	24	100	2.0	0.040	0.068	0.120
FLT180S	1.8	3.8	24	100	2.0	0.040	0.068	0.120
FLT190	1.9	4.2	24	100	1.9	0.030	0.057	0.100
FLT190RU	1.9	4.2	24	100	2.0	0.030	0.057	0.100
FLT260	2.6	5.2	24	100	2.3	0.025	0.042	0.076
FLT300	3.0	6.3	24	100	2.0	0.015	0.031	0.055
FLT310	3.1	6.0	24	100	2.5	0.018	0.030	0.055
FLT340	3.4	6.8	24	100	2.7	0.016	0.027	0.050

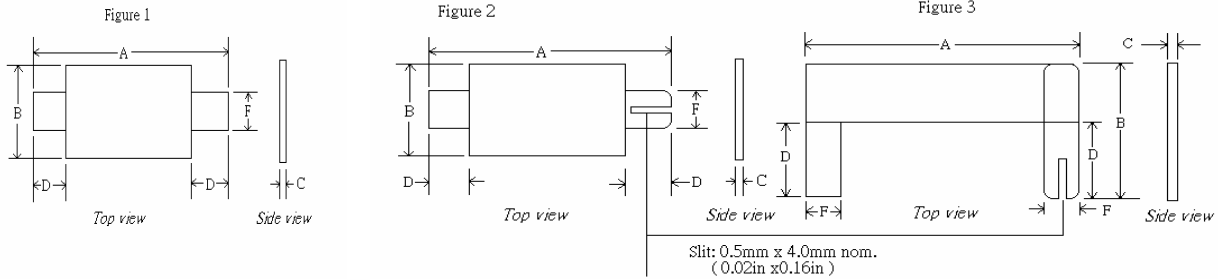
I_H =Hold current-maximum current at which the device will not trip at 23 °C still air.
 I_T =Trip current-minimum current at which the device will always trip at 23 °C still air.
 V_{MAX} =Maximum voltage device can withstand without damage at its rated current.
 I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).
 Pd =Maximum power dissipated from device when in 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.

Atom Electronics Ltd.

NOTE : Specification subject to change without notice.

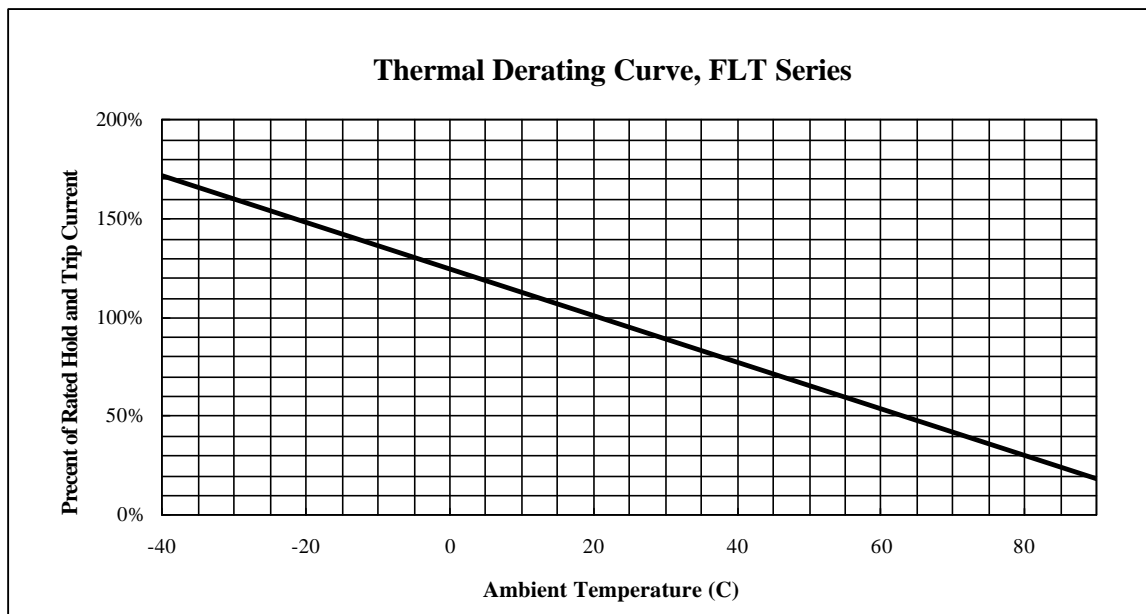


4. Production Dimensions (millimeter)



Part Number	Fig	A		B		C		D		F	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FLT070	1	19.9	22.1	4.9	5.2	0.7	1.2	5.5	7.5	3.9	4.1
FLT070S	2	19.9	22.1	4.9	5.2	0.7	1.2	5.5	7.5	3.9	4.1
FLT100	1	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
FLT100S	2	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
FLT180	1	24.0	26.0	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
FLT180S	2	24.0	26.0	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
FLT190	1	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4
FLT190RU	3	19.8	20.8	13.3	14.3	0.4	0.8	8.1	9.5	3.8	4.2
FLT260	1	24.0	26.0	10.8	11.9	0.6	1.0	5.0	7.0	5.9	6.1
FLT300	1	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	6.0	6.6
FLT310	1	24.0	26.0	14.8	15.9	0.6	1.0	5.0	7.0	5.9	6.1
FLT340	1	24.0	26.0	14.8	15.9	0.6	1.0	4.0	5.0	5.9	6.1

5. Thermal Derating Curve



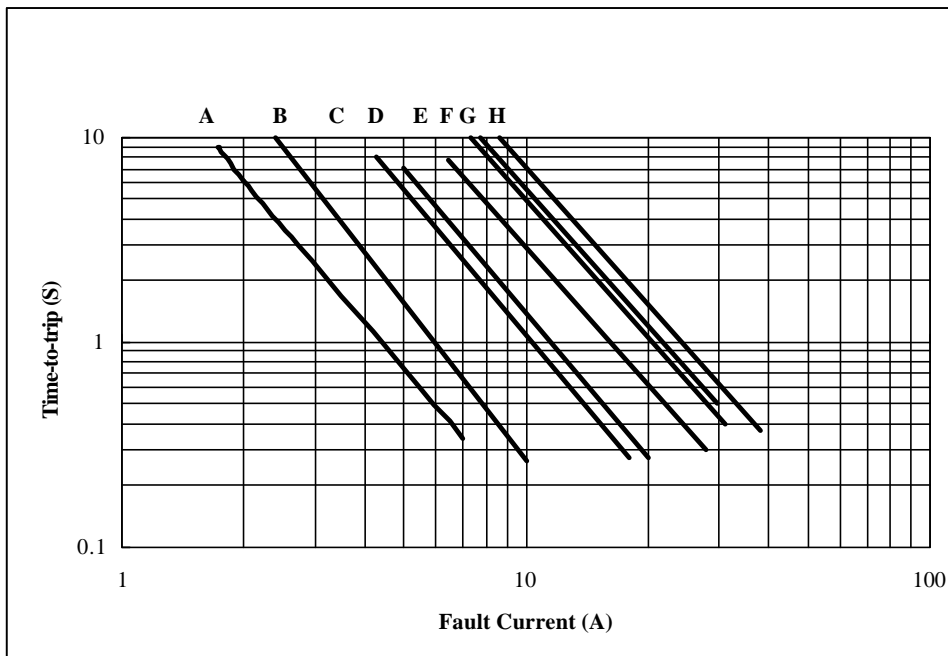
Atom Electronics Ltd.

NOTE : Specification subject to change without notice.



6. Typical Time-To-Trip at 23

- A=FLT070/FLT070S
- B=FLT100/FLT100S
- C=FLT180/FLT180S
- D=FLT190/FLT190RU
- E=FLT260
- F=FLT300
- G=FLT310
- H=FLT340

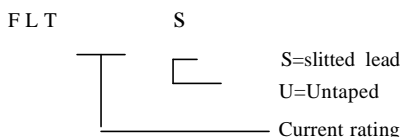


7. Material Specification

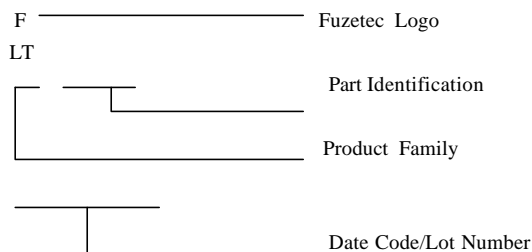
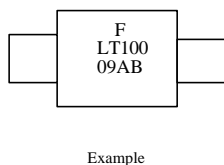
Lead material: 0.13 mm nominal thickness, quarter-hard nickel
 Insulating material: Polyester tape

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.

Atom Electronics Ltd.

NOTE : Specification subject to change without notice.