

 FUZETEC TECHNOLOGY CO., LTD.	NO.	PQ07-107E		
	Product Specification and Approval Sheet	Version	3	Page

Axial Leaded PTC Resettable Fuse: FLR450F

1. Summary

- (a) **RoHS Compliant (Lead Free) Product**
- (b) **Applications:** Rechargeable battery packs, Lithium cell and battery packs
- (c) **Product Features:** Low profile, Low resistance, High hold current, Solid state
- (d) **Operation Current:** 4.5A
- (e) **Maximum Voltage:** 20V
- (f) **Temperature Range :** -40°C to 85°C

2. Agency Recognition

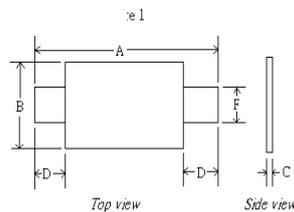
UL: File No. E211981
TÜV: File No. R50004084

3. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Rated Voltage	Maximum Current	Typical Power	Resistance		
							RMIN	RMAX	R1MAX
	I _H , A	I _T , A	at 5xI _H ,s	V _{MAX} , VDC	I _{MAX} , A	P _d , W	Ohms	Ohms	Ohms
FLR450F	4.5	8.9	5.0	20	100	2.5	0.011	0.020	0.028

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 tripped state in 23°C still air environment.
R_{MIN}=Minimum device resistance at 23°C.
R_{1MAX}=Maximum device resistance at 23C, 1 hour after tripping.
Physical specifications:
Lead material:0.13mm nominal thickness, quarter-hard nickel.
Insulating material: Polyester tape.

4. Production Dimensions (millimeter)

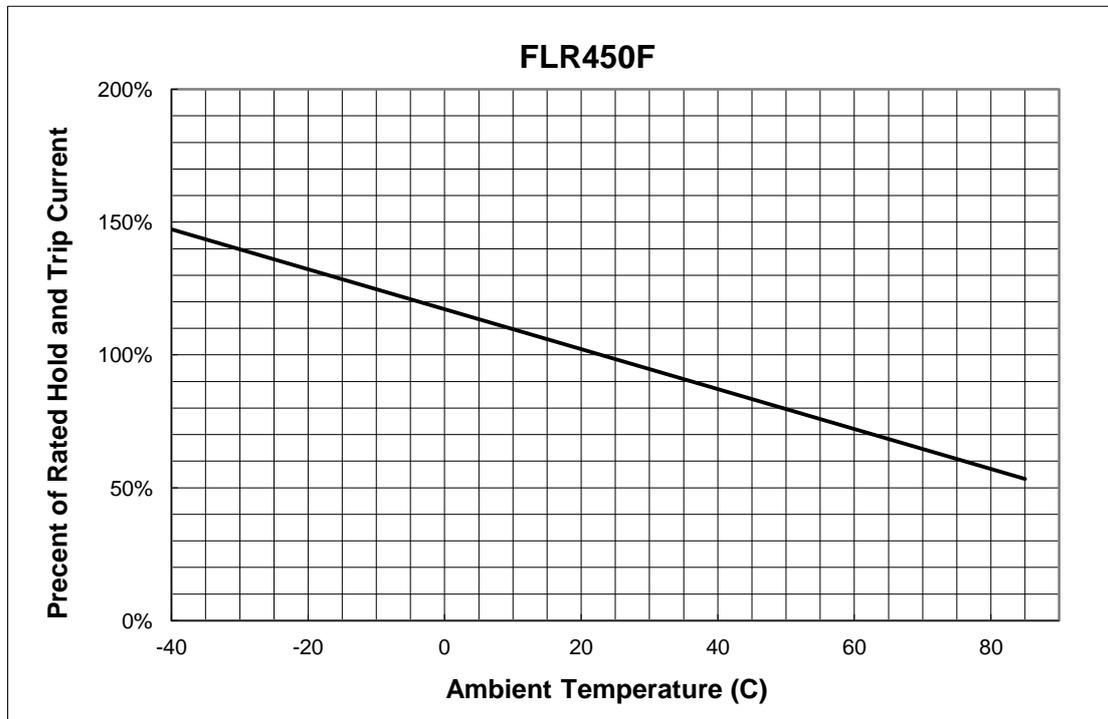


Part Number	A		B		C		D		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FLR450F	24.0	26.0	9.9	10.5	0.6	1.0	5.3	6.7	5.9	6.1

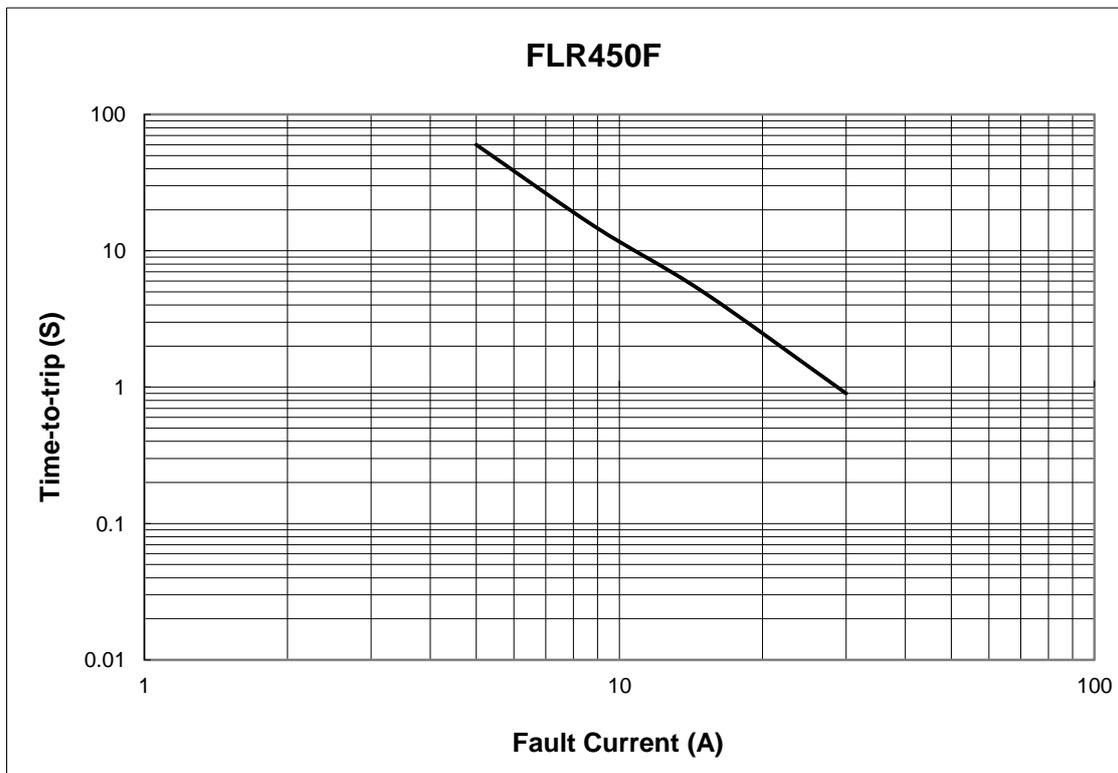
NOTE : Specification subject to change without notice.



5. Thermal Derating Curve



6. Typical Time-To-Trip at 23°C



NOTE : Specification subject to change without notice.

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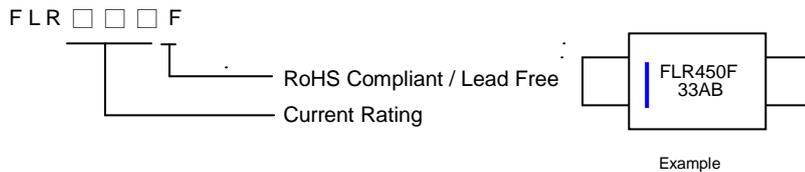
7. Material Specification

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

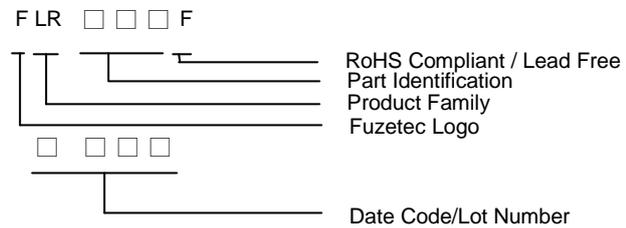
Insulating material: Polyester tape

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.