FUZETEC TECHNOLOGY CO., LTD.

Product Specification and Approval Sheet Version

NO.

1/3

Axial Leaded PTC Resettable Fuse: FSR420F

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: 4.2A
- (e) Maximum Voltage: 30V
- (f) Temperature Range : -40° C to 85° C

2. Agency Recognition

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

3. Electrical Characteristics (23°C)

Part Number	Hold	Trip	Max. Time Rated		Maximum	Typical	Resistance		
	Current	Current	to Trip	Voltage	Current	Power	Rміn	Rмах	R 1max
	Ін, А	Ιт, А	at 5xIH, S	V мах, Vdc	Імах, А	Pd, W	ohms	ohms	ohms
FSR420F	4.2	7.6	6.0	30	100	2.9	0.012	0.024	0.040

I_H=Hold current-maximum current at which the device will not trip at 23 $^\circ\!\!C$ still air.

IT=Trip current-minimum current at which the device will always trip at 23 $^\circ\!\!\mathbb{C}$ 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.

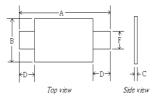
RMIN=Minimum device resistance at 23°C

R1_{MAX}=Maximum device resistance at 23° C, 1 hour after tripping.

Physical specifications:

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

4. Production Dimensions (millimeter)

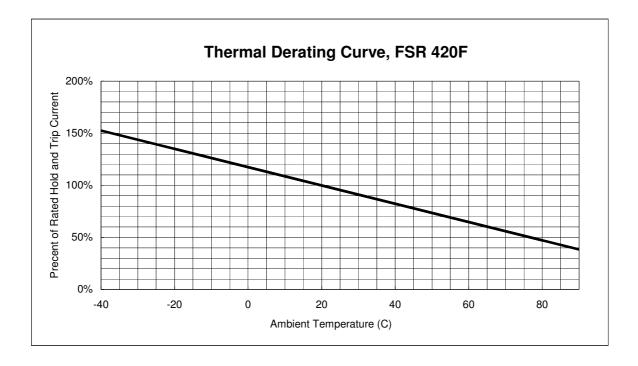


Part	Α		В		С		D		F	
Number	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FSR420F	30.6	32.4	12.9	13.6	0.5	1.1	5.0	7.5	6.0	6.7

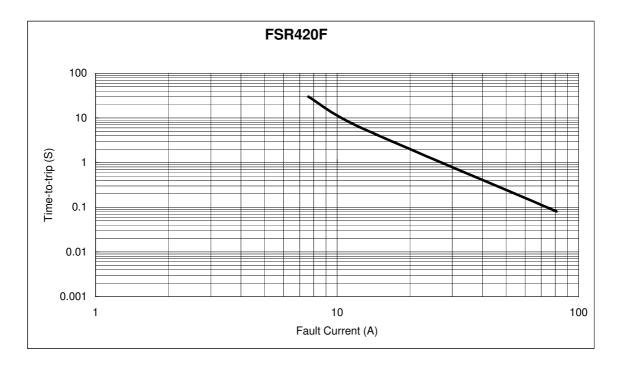
NOTE : Specification subject to change without notice.

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5. Thermal Derating Curve



6. Typical Time-To-Trip at 23℃

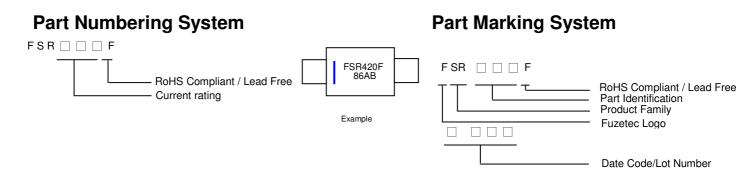


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7. Material Specification

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

8. Part Numbering and Marking System



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.