

 FUZETEC TECHNOLOGY CO., LTD.	NO.	PQ30-102E		
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Axial Leaded PTC Resettable Fuse: FSL190F

1. Summary

- (a) **RoHS Compliant (Lead Free) Product**
- (b) **Applications: Laptop Computer, Mobile phone battery packs, Rechargeable battery packs, Lithium cell and battery packs**
- (c) **Product Features: Low resistance, Solid state**
- (d) **Operation Current: 1.9A**
- (e) **Maximum Voltage: 6V**
- (f) **Temperature Range : -40°C to 85°C**

2. Agency Recognition

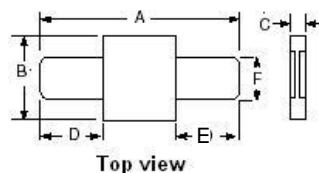
UL: Pending
 C-UL: Pending
 TÜV: Pending

3. Electrical Characteristics (23°C)

Part Number	Hold Current I _H , A	Trip Current I _T , A	Max. Time to Trip at 5xI _H , s	Rated Voltage V _{MAX} , V _{dc}	Maximum Current I _{MAX} , A	Typical Power Pd, W	Resistance		
							R _{MIN} Ω	R _{MAX} Ω	R _{1MAX} Ω
FSL190F	1.9	4.9	3.0	6	50	1.0	0.006	0.014	0.024

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

4. Production Dimensions (millimeter)

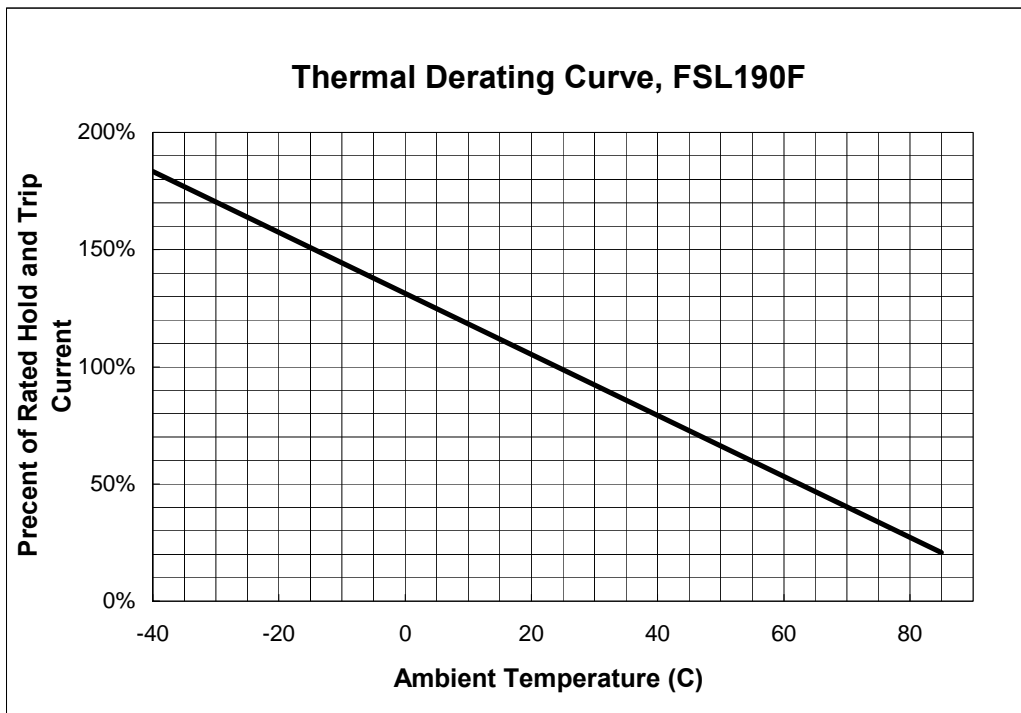


Part Number	A		B		C		D		E		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FSL190F	9.20	10.80	3.15	3.45	0.55	0.95	2.15	3.25	2.15	3.25	2.20	2.40

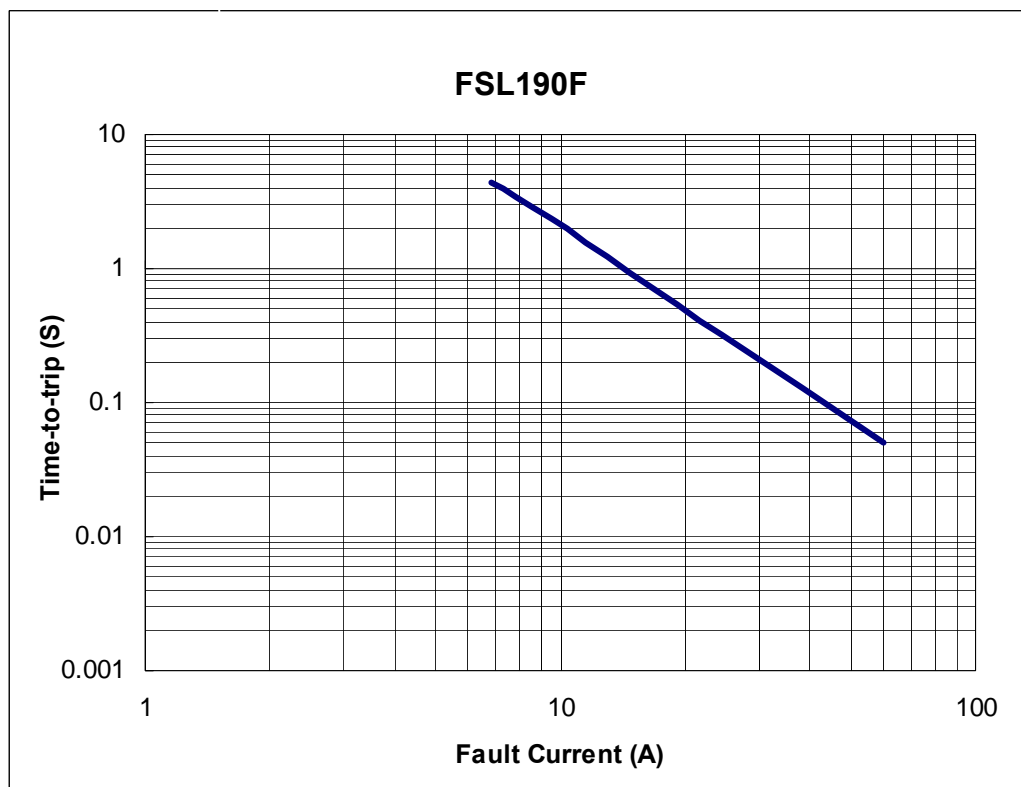
NOTE : Specification subject to change without notice.



5. Thermal Derating Curve



6. Typical Time-To-Trip at 23°C



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7. Material Specification

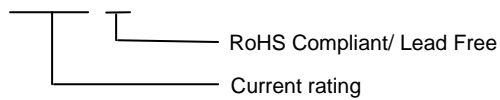
Lead material: 0.1 mm nominal thickness, quarter-hard nickel

Insulating material: Polyester tape

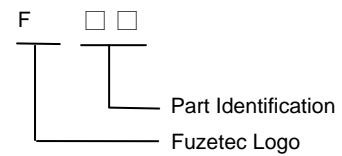
8. Part Numbering and Marking System

Part Numbering System

F SL □ □ □ F



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.