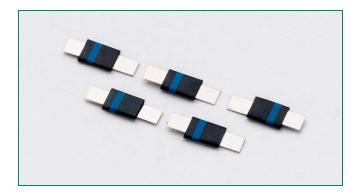


SL LoRho Battery Strap Series





Agency Approvals

AGENCY	AGENCY FILE NUMBER					
c '911 ° us	E183209					
 TÜV	R50119583					

Description

The new Littelfuse SL LoRho Battery Strap Series PPTC (polymer positive temperature coefficient) is designed with a proprietary conductive polymer material, to provide both over-current and over-temperature protection for rechargeable battery cells. This series features a slim, low profile and low resistance design to install directly on the latest generations of battery cells for a longer battery run time.

Features

- Low Profile
- Lo Rho (low resistance at normal operating hold • current)
- Installs Directly on battery cell
 - RoHS Compliant, leadfree and halogen-free

Applications

· Rechargeable battery cell protection

Electrical Characteristics

Part Number	 _{hold}	l trip	V _{max}	l _{max}	P _d	Maximu To T	ım Time Trip	F	Resistance		Age Appr	ncy ovals
Fart Number	(A)	(A)	(Vdc)	(A)	max. (W)	Current (A)	Time (Sec.)	R _{min} (Ω)	R _{max} (Ω)	R $_{1\text{max}}$ (Ω)	c 'AL ° us	△ TÜV
06SL190G	1.9	4.9	6	50	1.0	9.5	3.00	0.006	0.013	0.024	X	X
06SL370G	3.7	9.0	6	50	1.2	18.5	5.00	0.005	0.013	0.020	X	X

I $_{\mathrm{hold}}$ = Hold current: maximum current device will pass without tripping in 20°C still air.

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Temperature Rerating

	Ambient Operation Temperature											
	-40°C -20°C 0°C 20°C 40°C 50°C 60°C 70°C 85°C											
Part Number	Hold Current (A)											
06SL190G	3.40	3.00	2.60	1.90	1.70	1.40	1.20	1.00	0.70			
06SL370G	5.90	5.20	4.80	3.70	3.10	2.80	2.20	1.70	1.20			

WARNING

- Users shall independently assess the suitability of these devices for each of their applications
- Operation of these devices beyond the stated maximum ratings could result in damage to the devices and lead to electrical arcing and/or fire
- These devices are intended to protect against the effects of temporary over-current or over-temperature conditions and are not intended to perform as protective devices where such conditions are expected to be repetitive or prolonged in duration
- Exposure to silicon-based oils, solvents, electrolytes, acids, and similar materials can adversely affect the performance of these PPTC devices
- These devices undergo thermal expansion under fault conditions, and thus shall be provided with adequate space and be protected against mechanical stresses
- Circuits with inductance may generate a voltage (L di/dt) above the rated voltage of the PPTC device.

I $_{\mathrm{trip}}$ = Trip current: minimum current at which the device will trip in 20°C still air.

 $V_{\rm max}$ = Maximum voltage device can withstand without damage at rated current (I max)

 I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max})

 P_d = Power dissipated from device when in the tripped state at 20°C still air.

R min = Minimum resistance of device in initial (un-soldered) state.

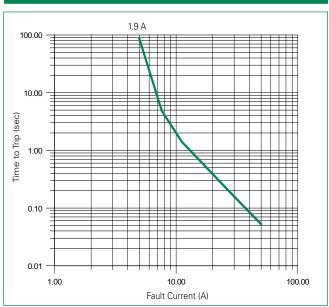
R _{max} = Maximum resistance of device in initial (un-soldered) state.

R _{max} = Maximum resistance of device at 20°C measured one hour after tripping

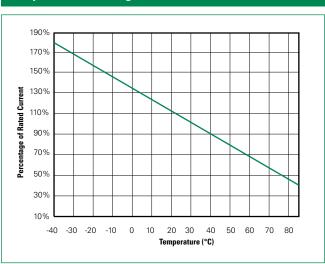


POLY-FUSE® Resettable PTCs

Average Time Current Curves



Temperature Rerating Curve



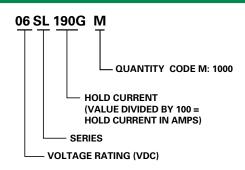
Additional Information



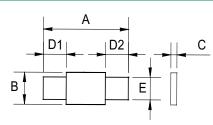




Order Numbering System



Dimensions (mm)



	A	4			E	3			(2			D	1		D2		E					
Inc	hes	m	m	Inc	hes	m	m																
Min.	Max.	Min.	Max.	Min.	Max.																		
0.36	0.43	9.2	10.8	0.12	0.14	3.15	3.45	0.02	0.04	0.55	0.95	0.09	0.13	2.15	3.25	0.09	0.13	2.15	3.25	0.087	0.094	2.2	2.4

Packaging

Part Number	Ordering Number	I _{hold} (A)	I _{hold} Code	Packaging Option Bulk	Quantity	Quantity & Packaging Code
06SL190G	06SL190GM	1.9	190	Bulk	1000	M
06SL370G	06SL370GM	3.7	370	Bulk	1000	М