



## Features

- Strap devices, Axial leaded
- Smaller dimension, Lower initial resistance
- Low switching temperature, Provides overcurrent protection with 85 °C trip temperature
- Typical use for Li-ion /Polymer Li-ion battery
- Available in lead-free version
- Agency recognition: UL, CSA, TUV

SEL-USE

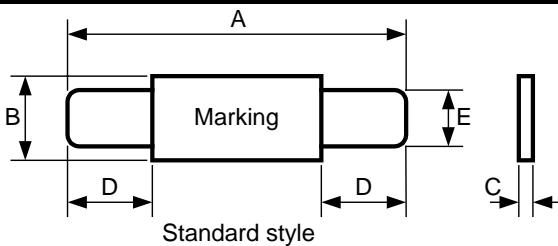


LR series

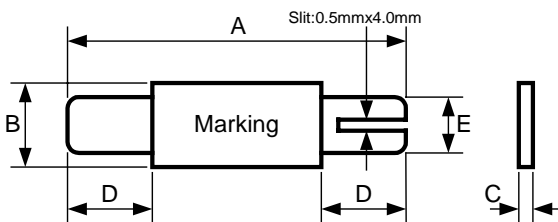
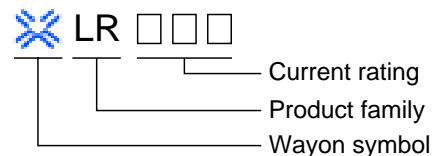
Strap devices

## Product Dimensions

Part number	A	B	C	D
	Max.	Max.	Max.	Max.
LR210	24.0	26.5	3.60	3.80
LR210N	24.0	26.5	3.30	3.50
LR270	24.0	26.5	3.30	3.50



### Marking system



\* Lead materials: Nickel.

\* Insulating material: Polyester tape.

\* Lead-free devices are available, the right logo is lead-free mark of wayon.



## Electrical Characteristics

Part number	$I_H$	$I_T$	$V_{max}$	$I_{max}$	$T_{trip}$		$R_{min}$	$R_{max}$
	(A)	(A)	(V)	(A)	Current(A)	Time(S)	( )	( )
LR210	2.10	4.70	16	100	10.0	4.0	0.018	0.035
LR210N	2.10	4.70	16	100	10.0	4.0	0.018	0.035
LR270	2.70	6.50	16	100	13.5	5.0	0.012	0.018

$I_H$ =Hold current: maximum current at which the device will not trip at 25 °C still air.

$I_T$ =Trip current: minimum current at which the device will always trip at 25 °C still air.

$V_{max}$ =Maximum voltage device can withstand without damage at rated current.

$I_{max}$ =Maximum fault current device can withstand without damage at rated voltage.

$T_{trip}$ =Maximum time to trip(s) at assigned current.

$P_{dtyp}$ =Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

$R_{min}$ =Minimum device resistance at 25 °C prior to tripping.

$R_{max}$ =Maximum device resistance at 25 °C prior to tripping.

Shanghai Wayon Thermo/Electro Materials Co.,Ltd.

4th Floor, No.201, New Jinqiao Road, Shanghai 201206,China

Tel: 86-21- 50320161 58995165

Fax: 86-21-50320266

E-mail: [market@way-on.com](mailto:market@way-on.com)

[Http://www.way-on.com](http://www.way-on.com)

## Test Procedures And Requirements

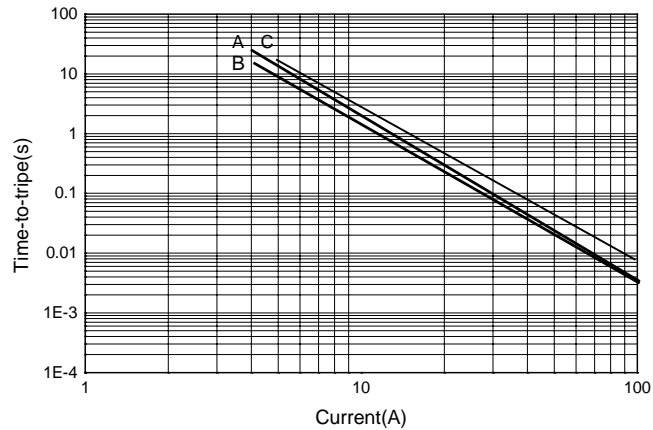
Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25	$R_{min}$ R $R_{max}$
Time to Trip	Specified current, $V_{max}$ , 25	T maximum Time to Trip
Hold Current	30min, at $I_H$	No trip
Trip Cycle Life	$V_{max}$ , $I_{max}$ , 100cycles	No arcing or burning
Trip Endurance	$V_{max}$ , 24hours	No arcing or burning

## Thermal Derating Chart- $I_H(A)$

Part number	Maximum ambient operating temperatures( )							
	-40	-20	0	25	40	50	60	70
LR210	4.00	3.40	2.70	2.10	1.50	1.20	0.90	0.60
LR210N	4.00	3.40	2.70	2.10	1.50	1.20	0.90	0.60
LR270	5.60	4.70	4.00	2.70	2.20	1.70	1.40	0.90

## Typical Time-to-Trip Charts at 25

A=LR210  
B=LR210N  
C=LR270



## Package Information

Bulk, 1000pcs per bag