



## Features

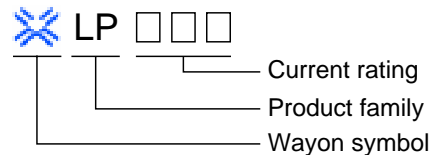
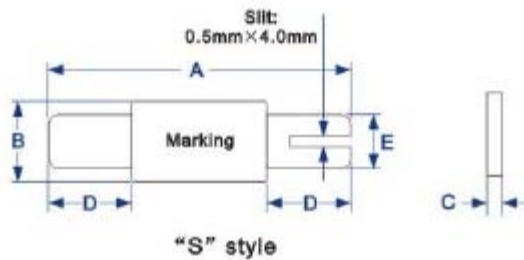
- Strap devices, Axial leaded, Low initial resistance
- Narrow breadth designs to meet smaller battery packs,
- Typical use for NiCd/NiMH rechargeable battery packs, Li-ion /Polymer Li-ion battery.
- Available in lead-free version



## LPN series Strap devices

### Product Dimensions

Part number	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
LP170N	23.0	25.5	3.0	3.3	0.5	0.8	4.7	6.5	5.2	7.2
LP175N	23.0	25.5	3.0	3.3	0.5	0.8	4.7	6.5	5.2	7.2
LP210N	23.0	25.5	3.0	3.3	0.5	0.8	4.7	6.5	5.2	7.2



### 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)	( )	( )
LP170N	1.70	4.10	12	100	8.50	5.0	0.030	0.051
LP175N	1.75	4.20	12	100	8.75	5.0	0.028	0.040
LP210N	2.10	4.70	12	100	10.0	5.0	0.018	0.035

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

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

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

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

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

## 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- $I_H(A)$

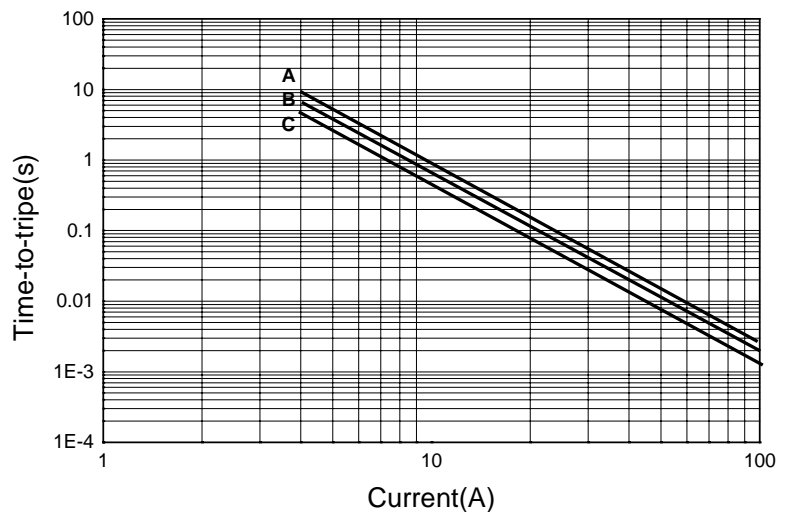
Part number	Maximum ambient operating temperatures( )							
	-40	-20	0	25	40	50	60	70
LP170N	3.20	2.70	2.20	1.70	1.30	1.00	0.80	0.50
LP175N	3.20	2.70	2.20	1.70	1.30	1.00	0.80	0.50
LP210N	4.00	3.40	2.70	2.10	1.50	1.20	0.90	0.60

## Typical Time-to-Trip Charts at 25

A=LP170N

B=LP175N

C=LP210N



## Package Information

Bulk, 1000pcs per bag.