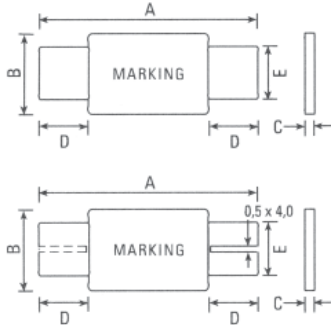


LTD



Dimensions (mm)



S: one slot
SS: two slots

Strap Type, 15 V / 24 V

Standard

UL 1434 1st Edition
CSA C22.2 No. 0 CSA TIL No. CA-3A

Approvals

cULus Recognition
TÜV

Features

This product line similar to the STD family is designed to provide overcurrent protection for rechargeable batteries at elevated temperatures. These devices offer hold currents from 0.7 A to 4.3 A and voltages from 15 V to 24 V.

Specifications

Packaging

A small pack
D standard

Materials

Insulating material: Polyester Tape
Terminals: Nickel

Max. Device Surface Temperature in Tripped State

120 °C

Operating / Storage Temperature

-40 °C to +85 °C (consider derating)

Humidity Ageing

+85 °C, 85 % R.H., 7 days, ± 5 % typical resistance change

Vibration

MIL-LTD-883C, Condition A, no change

Marking

"P", Part Code, identification, lot number



Dimensions (mm)

Model	Fig	A		B		C		D	E		packaging quantity	
		Min	Max	Min	Max	Min	Max		Min	Max	small pack	standard
LTD070	1	19.9	22.1	4.9	5.2	0.7	1.2	5.5	3.9	4.1	500	10,000
LTD070S	2	19.9	22.1	4.9	5.2	0.7	1.2	5.5	3.9	4.1	500	10,000
LTD100	1	20.9	23.1	4.9	5.2	0.6	1.0	4.1	3.9	4.1	500	10,000
LTD100S	2	20.9	23.1	4.9	5.2	0.6	1.0	4.1	3.9	4.1	500	10,000
LTD100SS	3	20.9	23.1	4.9	5.2	0.6	1.0	4.1	3.9	4.1	500	10,000
LTD180	1	24.0	26.0	4.9	5.2	0.6	1.0	4.1	3.9	4.1	500	10,000
LTD180S	2	24.0	26.0	4.9	5.2	0.6	1.0	4.1	3.9	4.1	500	10,000
LTD180SS	3	24.0	26.0	4.9	5.2	0.6	1.0	4.1	3.9	4.1	500	10,000
LTD190	1	21.3	23.4	10.2	11.0	0.5	1.0	5.0	4.8	5.4	500	10,000
LTD260	1	24.0	26.0	10.8	11.9	0.6	1.0	5.0	5.9	6.1	500	10,000
LTD300	1	28.4	31.8	13.0	13.5	0.5	1.1	6.3	6.0	6.6	500	10,000
LTD310	1	24.0	26.0	14.8	15.9	0.6	1.0	5.0	5.9	6.1	500	10,000
LTD340	1	24.0	26.0	14.8	15.9	0.6	1.0	5.0	5.9	6.1	500	10,000

Permissible continuous operating current is ≤ 100 % at ambient temperature of 20 °C (68 °F).

Model	I _{hold} (mA/A)	I _{Trip} (A)	V _{max, dc} (V)	I _{max} (A)	max. time to trip (s @ A)	P _{d max.} (W)	Resistance			Approvals	
							R _{min.} ()	R _{max.} ()	R _{I max.} ()	cULus	TÜV
LTD070	700	1.50	15	100	5.0 @ 3.5	1.00	0.100	0.200	0.340	•	•
LTD070S	700	1.50	15	100	5.0 @ 3.5	1.00	0.100	0.200	0.340	•	•
LTD100	1.00	2.50	24	100	7.0 @ 5.0	1.50	0.070	0.130	0.260	•	•
LTD100S	1.00	2.50	24	100	7.0 @ 5.0	1.50	0.070	0.130	0.260	•	•
LTD100SS	1.00	2.50	24	100	7.0 @ 5.0	1.50	0.070	0.130	0.260	•	•
LTD180	1.80	3.80	24	100	2.9 @ 9.0	2.00	0.040	0.068	0.120	•	•
LTD180S	1.80	3.80	24	100	2.9 @ 9.0	2.00	0.040	0.068	0.120	•	•
LTD180SS	1.80	3.80	24	100	2.9 @ 9.0	2.00	0.040	0.068	0.120	•	•
LTD190	1.90	4.20	24	100	3.0 @ 10.0	1.90	0.030	0.057	0.100	•	•
LTD260	2.60	5.20	24	100	5.0 @ 13.0	2.30	0.025	0.042	0.076	•	•
LTD300	3.00	6.30	24	100	4.0 @ 15.0	2.00	0.015	0.031	0.055	•	•
LTD310	3.10	6.00	24	100	5.0 @ 16.0	2.50	0.018	0.030	0.055	•	•
LTD340	3.40	6.80	24	100	5.0 @ 17.0	2.70	0.016	0.027	0.050	•	•

NOTE:

I_{hold} = Hold current: maximum current device will pass without tripping in 20 °C still air.
I_{Trip} = Trip current: minimum current at which the device will trip in 20 °C still air.
V_{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})

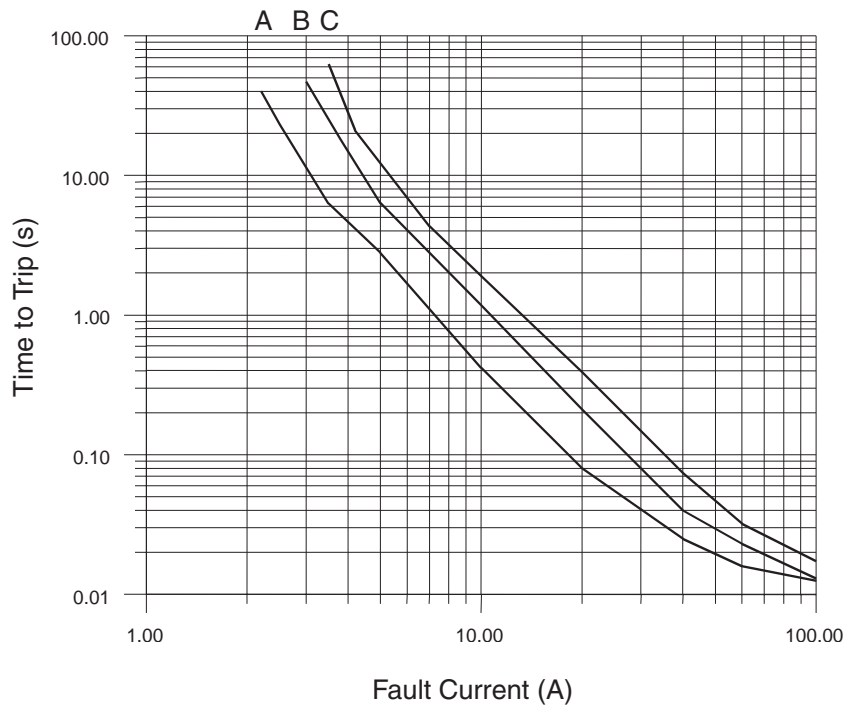
P_d = Power dissipated from device when in the tripped state at 20 °C still air.

R_{min} = Minimum resistance of device in initial (un-soldered) state.
R_{I max} = Maximum resistance of device at 20 °C measured one hour after tripping for 20 s.

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame. Specifications are subject to change without notice

Order Information	Qty.	Order-Number	Model	Packaging

LTD



A: LTD190
 B: LTD180
 C: LTD100S

Thermal Derating Chart

Model	Ambient Operation Temperature - I_{hold} (A)								
	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
LTD070	1.20	1.09	0.85	0.70	0.50	0.45	0.35	0.28	0.16
LTD070S	1.20	1.09	0.85	0.70	0.50	0.45	0.35	0.28	0.16
LTD100	1.86	1.60	1.40	1.00	0.83	0.70	0.60	0.44	0.23
LTD100S	1.86	1.60	1.40	1.00	0.83	0.70	0.60	0.44	0.23
LTD100SS	1.86	1.60	1.40	1.00	0.83	0.70	0.60	0.44	0.23
LTD180	3.13	2.68	2.20	1.80	1.33	1.10	0.90	0.65	0.36
LTD180S	3.13	2.68	2.20	1.80	1.33	1.10	0.90	0.65	0.36
LTD180SS	3.13	2.68	2.20	1.80	1.33	1.10	0.90	0.65	0.36
LTD190	3.32	2.86	2.40	1.90	1.48	1.25	1.10	0.79	0.43
LTD260	4.30	3.72	3.10	2.60	1.98	1.69	1.40	1.11	0.60
LTD300	5.10	4.40	3.70	3.00	2.30	1.95	1.60	1.25	0.69
LTD310	5.36	4.58	3.70	3.10	2.36	2.01	1.70	1.30	0.71
LTD340	5.52	4.79	4.00	3.40	2.60	2.24	1.90	1.51	0.78