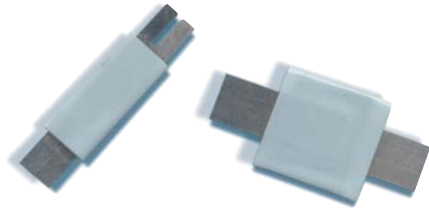


LRD

Strap Type, 15 V / 20 V

Specifications



Standard

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

Packaging

A small pack
D standard

Approvals

cULus Recognition
TÜV

Materials

Insulating material: Polyester Tape
Terminals: Nickel

Features

The LRD product series are designed to reduce the device's resistance at the same hold current rating. The smaller thermal mass of these devices also provide benefit of faster trip time and increase the battery safety level. The LRD devices are ideally suited for battery packs used for portable computer and camcorder applications.

Max. Device Surface Temperature in Tripped State

125 °C

Operating / Storage Temperature

-40 °C to +85 °C (consider derating)

Humidity Ageing

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

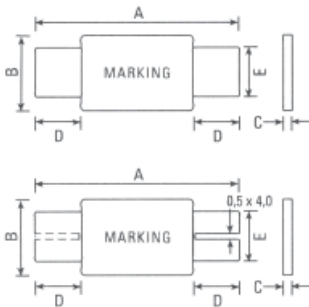
Vibration

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

Marking

"P", Part Code, identification, lot number

Dimensions (mm)



S: one slot



Dimensions (mm)												
Model	Fig	A		B		C		D	E		packaging quantity	
		Min	Max	Min	Max	Min	Max		Min	Max	small pack	standard
LRD190	1	19.9	22.1	4.9	5.5	0.6	1.0	5.5	3.9	4.1	500	10,000
LRD190S	2	19.9	22.1	4.9	5.5	0.6	1.0	5.5	3.9	4.1	500	10,000
LRD260	1	20.9	23.1	4.9	5.5	0.6	1.0	4.1	3.9	4.1	500	10,000
LRD260S	2	20.9	23.1	4.9	5.5	0.6	1.0	4.1	3.9	4.1	500	10,000
LRD380	1	24.0	26.0	6.9	7.5	0.6	1.0	5.3	4.9	5.1	500	10,000
LRD450	1	24.0	26.0	9.9	10.5	0.6	1.0	5.3	5.9	6.1	500	10,000
LRD550	1	35.0	37.0	6.9	7.5	0.6	1.0	5.3	4.9	5.1	500	10,000
LRD600	1	24.0	26.0	13.9	14.5	0.6	1.0	4.1	5.9	6.1	500	10,000
LRD730	1	27.1	29.1	13.9	14.5	0.6	1.0	4.1	5.9	6.1	500	10,000

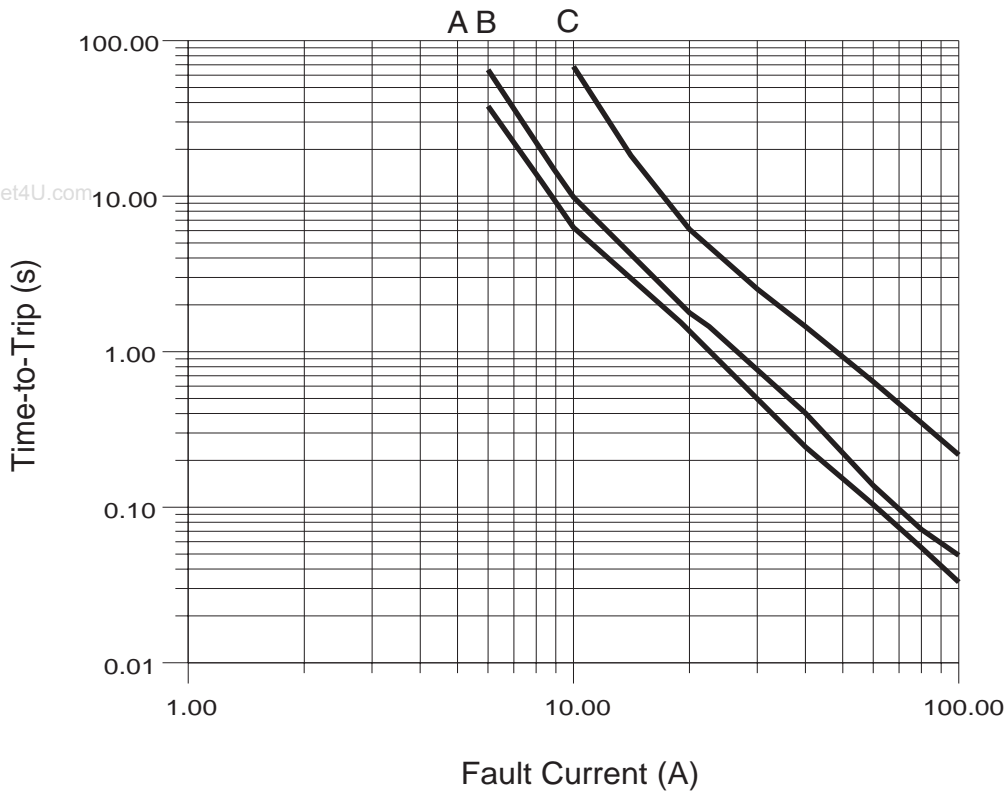
Permissible continuous operating current is ≤ 100 % at ambient temperature of 20 °C (68 °F).												
Model	I _{hold} (A)	I _{Trip} (A)	V _{max. dc} (V)	I _{max.} (A)	max. time to trip (s @ A)	P _{d max.} (W)	Resistance			Approvals		
							R _{min.} ()	R _{max.} ()	R _{I max.} ()		cULus	TÜV
LRD190	1.90	3.90	15	100	5.0 @ 9.50	1.20	0.039	0.072	0.102	• •		
LRD190S	1.90	3.90	15	100	5.0 @ 9.50	1.20	0.039	0.072	0.102	• •		
LRD260	2.60	5.80	15	100	5.0 @ 13.00	2.50	0.020	0.042	0.063	• •		
LRD260S	2.60	5.80	15	100	5.0 @ 13.00	2.50	0.020	0.042	0.063	• •		
LRD380	3.80	8.30	15	100	5.0 @ 19.00	2.50	0.013	0.026	0.037	• •		
LRD450	4.50	8.90	20	100	5.0 @ 22.50	2.50	0.011	0.020	0.028	• •		
LRD550	5.50	10.50	20	100	5.0 @ 27.50	2.80	0.009	0.016	0.022	• •		
LRD600	6.00	11.70	20	100	5.0 @ 30.00	2.80	0.007	0.014	0.019	• •		
LRD730	7.30	14.10	20	100	5.0 @ 30.00	3.30	0.006	0.012	0.015	• •		

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 sec.
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

LRD



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
LRD190	2.80	2.50	2.30	1.90	1.60	1.50	1.40	1.20	1.00
LRD190S	2.80	2.50	2.30	1.90	1.60	1.50	1.40	1.20	1.00
LRD260	3.80	3.40	3.10	2.60	2.20	2.00	1.90	1.70	1.40
LRD260S	3.80	3.40	3.10	2.60	2.20	2.00	1.90	1.70	1.40
LRD380	5.50	4.90	4.40	3.80	3.30	3.00	2.80	2.50	2.10
LRD450	6.50	5.80	5.30	4.50	3.90	3.60	3.30	2.90	2.50
LRD550	8.00	7.10	6.20	5.50	4.70	4.30	4.00	3.60	3.00
LRD600	8.70	7.80	7.10	6.00	5.20	4.70	4.40	3.90	3.30
LRD730	10.60	9.50	8.60	7.30	6.30	5.70	5.40	4.70	4.00