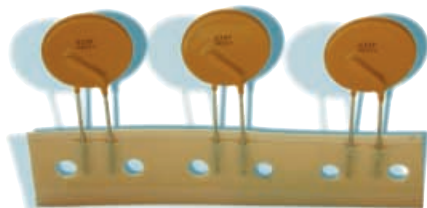
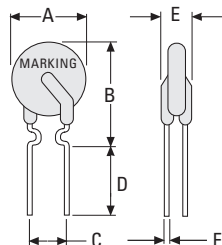


No. RLD60



Dimensions (mm)



Radial Leaded, 60V

Standard

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

Approvals

cULus Recognized: File No. E 67006
TÜV: File No. R 50017428

Features

Low voltage (60Vdc) overcurrent protection
Low resistance and power dissipation
Low trip-to-hold current ratios
Internationally approved

Wide range of applications, including switching power supplies, loudspeakers, security systems, DC/DC converters and motor actuators

WebLinks

Data Sheet - latest version

www.wickmannusa.com/products/rld60.pdf

Approval Certificates

www.wickmannusa.com/approvals

Packaging

www.wickmannusa.com/pack

Specifications

Packaging Code and Info

A: Bulk (Qty.: see table below)
F: Tape/Ampopack (Qty.: see table below)

Materials

Insulating Mat.: Cured Epoxy Polymer, UL 94V0
Round Pins: Copper alloy, tin plated

Device Surface Temperature in Tripped State

125°C Max.

Operating / Storage Temperature

-40°C to +85°C (see de-rating table)

Humidity Ageing

+85°C, 85% RH, 1000 hrs., ± 5% typical resistance change

Passive Ageing

+85°C, 1000 hrs., ± 5% typical resistance change

Thermal Shock

-40°C to +125°C, 10 times, ±10% typical resistance change (MIL-STD-202F, Method 107G)

Solvent Resistance

MIL-STD-202, Method 215F, no change

Solderability

Wave/Hand: 260°C, ≤ 3 sec.
(MIL-STD-202, Method 208E)

Marking

"P", Voltage, Current Code, Lot Code



Dimensions Legend							Packaging Quantity	
Rating	A (max.)	B (max.)	C (typ.)	D (min.)	E (max.)	F (Ø)	Bulk	Tape
100mA / 60V	7.4	12.7	5.1	7.6	3.1	0.51	500	2000
170mA / 60V	7.4	12.7	5.1	7.6	3.1	0.51	500	2000
200mA / 60V	7.4	12.2	5.1	7.6	3.1	0.51	500	2000
250mA / 60V	7.4	12.7	5.1	7.6	3.1	0.51	500	2000
300mA / 60V	7.4	13.0	5.1	7.6	3.1	0.51	500	2000
400mA / 60V	7.6	13.5	5.1	7.6	3.1	0.51	500	2000
500mA / 60V	7.9	13.7	5.1	7.6	3.1	0.51	500	2000
650mA / 60V	9.7	14.5	5.1	7.6	3.1	0.51	500	2000
750mA / 60V	10.4	15.2	5.1	7.6	3.1	0.51	500	2000
900mA / 60V	11.7	15.7	5.1	7.6	3.1	0.51	500	2000
1.10A / 60V	13.0	18.0	5.1	7.6	3.1	0.81	500	1000
1.35A / 60V	14.5	19.6	5.1	7.6	3.1	0.81	100	1000
1.60A / 60V	16.3	21.3	5.1	7.6	3.1	0.81	100	1000
1.85A / 60V	17.8	22.9	5.1	7.6	3.1	0.81	100	1000
2.50A / 60V	21.3	26.4	10.2	7.6	3.1	0.81	100	1000
3.00A / 60V	24.9	30.0	10.2	7.6	3.1	0.81	100	1000
3.75A / 60V	28.4	33.5	10.2	7.6	3.1	0.81	100	-

Permissible continuous operating current is ≤ 100% at ambient temperature of 20°C (68°F).										
Hold Current I_{hold}	Model Code	Trip Current I_{trip} (A)	Voltage Rating (Vdc)	max. Fault Current I_{max} (A)	max. Power Dissipation P_d (W)	max. Time-to-trip (A)	(s)	Resistance		Approvals cURus TÜV
								R_{min} min. (Ω)	R_{1max} max. (Ω)	
100mA	P010X	0.20	60	40	0.38	0.50	4.0	2.500	7.500	• p
170mA	P017X	0.34	60	40	0.48	0.85	3.0	3.300	8.000	• p
200mA	P020X	0.40	60	40	0.41	1.00	2.2	1.830	4.400	• •
250mA	P025X	0.50	60	40	0.45	1.25	2.5	1.250	3.000	• •
300mA	P030X	0.60	60	40	0.49	1.50	3.0	0.880	2.100	• •
400mA	P040X	0.80	60	40	0.56	2.00	3.8	0.550	1.290	• •
500mA	P050X	1.00	60	40	0.77	2.50	4.0	0.500	1.170	• •
650mA	P065X	1.30	60	40	0.88	3.25	5.3	0.310	0.720	• •
750mA	P075X	1.50	60	40	0.92	3.75	6.3	0.250	0.600	• •
900mA	P090X	1.80	60	40	0.99	4.50	7.2	0.200	0.470	• •
1.10A	P110X	2.20	60	40	1.5	5.50	8.2	0.150	0.380	• •
1.35A	P135X	2.70	60	40	1.7	6.75	9.6	0.120	0.300	• •
1.60A	P160X	3.20	60	40	1.9	8.00	11.4	0.090	0.220	• •
1.85A	P185X	3.70	60	40	2.1	9.25	12.6	0.080	0.190	• •
2.50A	P250X	5.00	60	40	2.5	12.50	15.6	0.050	0.130	• •
3.00A	P300X	6.00	60	40	2.8	15.00	19.8	0.040	0.100	• •
3.75A	P375X	7.50	60	40	3.2	18.75	24.0	0.030	0.080	• •

P = pending
 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_{1max} = Maximum resistance of device at 20°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

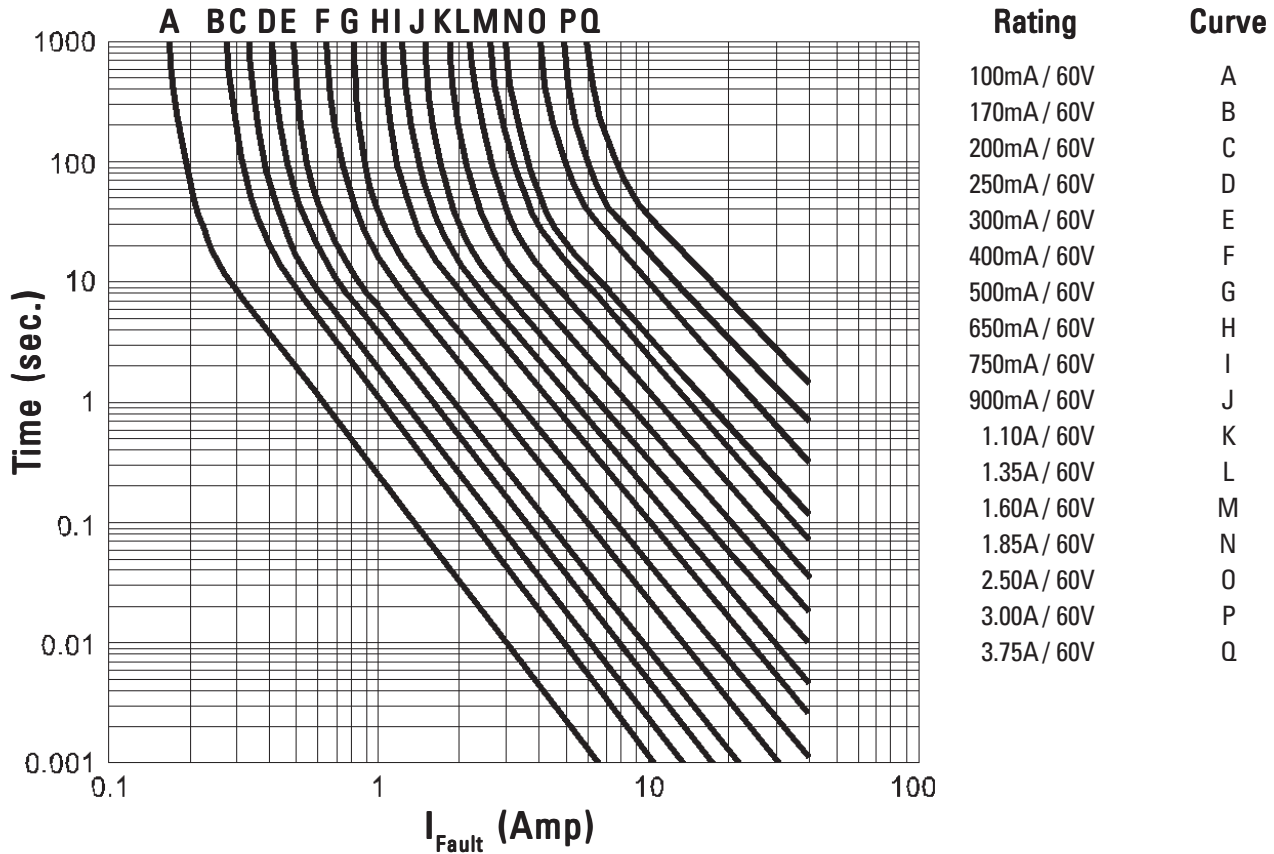
Order Information

Qty.	Order-Number	Series	Model Code	Pack. Code
		RLD60		

Specifications are subject to change without notice.

No. RLD60

Time-to-trip Characteristics



Thermal Derating Chart

Rating	I_{hold} (Amp) / Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
100mA / 60V	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04
170mA / 60V	0.26	0.23	0.20	0.17	0.14	0.12	0.11	0.09	0.07
200mA / 60V	0.31	0.27	0.24	0.20	0.16	0.14	0.13	0.11	0.08
250mA / 60V	0.39	0.34	0.30	0.25	0.20	0.18	0.16	0.14	0.10
300mA / 60V	0.47	0.41	0.36	0.30	0.24	0.22	0.19	0.16	0.12
400mA / 60V	0.62	0.54	0.48	0.40	0.32	0.29	0.25	0.22	0.16
500mA / 60V	0.78	0.68	0.60	0.50	0.41	0.36	0.32	0.27	0.20
650mA / 60V	1.01	0.88	0.77	0.65	0.53	0.47	0.41	0.35	0.26
750mA / 60V	1.16	1.02	0.89	0.75	0.61	0.54	0.47	0.41	0.30
900mA / 60V	1.40	1.22	1.07	0.90	0.73	0.65	0.57	0.49	0.36
1.10A / 60V	1.71	1.50	1.31	1.10	0.89	0.79	0.69	0.59	0.44
1.35A / 60V	2.09	1.84	1.61	1.35	1.09	0.97	0.85	0.73	0.54
1.60A / 60V	2.48	2.18	1.90	1.60	1.30	1.15	1.01	0.86	0.64
1.85A / 60V	2.87	2.52	2.20	1.85	1.50	1.33	1.17	1.00	0.74
2.50A / 60V	3.88	3.40	2.98	2.50	2.03	1.80	1.58	1.35	1.00
3.00A / 60V	4.65	4.08	3.57	3.00	2.43	2.16	1.89	1.62	1.20
3.75A / 60V	5.81	5.10	4.46	3.75	3.04	2.70	2.36	2.03	1.50