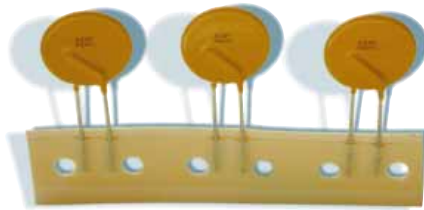
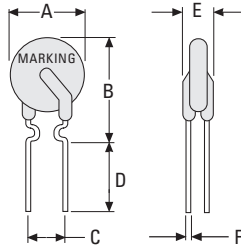


RLD60 / No. 708



Dimensions (mm)



Radial Leaded, 60V

Approvals

cULus Recognized: File No. E201431
TÜV: File No. R9956421

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

www.wickmannusa.com/products/708.pdf

Packaging

www.wickmannusa.com/pack

Specifications

Packaging

00: Bulk (Qty.: see table below)
02: Tape/Ammopack (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

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

Solvent Resistance

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

Solderability

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

Marking

"P", Voltage, Current Code, Lot Number



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	3000
170mA / 60V	7.4	12.7	5.1	7.6	3.1	0.51	500	3000
200mA / 60V	7.4	12.2	5.1	7.6	3.1	0.51	500	3000
250mA / 60V	7.4	12.7	5.1	7.6	3.1	0.51	500	3000
300mA / 60V	7.4	13.0	5.1	7.6	3.1	0.51	500	3000
400mA / 60V	7.6	13.5	5.1	7.6	3.1	0.51	500	3000
500mA / 60V	7.9	13.7	5.1	7.6	3.1	0.51	500	3000
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	2000
1.35A / 60V	14.5	19.6	5.1	7.6	3.1	0.81	100	2000
1.60A / 60V	16.3	21.3	5.1	7.6	3.1	0.81	100	2000
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	800

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 R_{min} min. (Ω) R_{1max} max. (Ω)	Model	Approvals cULus TÜV
100mA	01000	0.20	60	40	0.38	0.50 4.0	2.500 7.500	RLD60P010X	p p
170mA	01700	0.34	60	40	0.48	0.85 3.0	3.300 8.000	RLD60P017X	p p
200mA	02000	0.40	60	40	0.41	1.00 2.2	1.830 4.400	RLD60P020X	• •
250mA	02500	0.50	60	40	0.45	1.25 2.5	1.250 3.000	RLD60P025X	• •
300mA	03000	0.60	60	40	0.49	1.50 3.0	0.880 2.100	RLD60P030X	• •
400mA	04000	0.80	60	40	0.56	2.00 3.8	0.550 1.290	RLD60P040X	• •
500mA	05000	1.00	60	40	0.77	2.50 4.0	0.500 1.170	RLD60P050X	• •
650mA	06500	1.30	60	40	0.88	3.25 5.3	0.310 0.720	RLD60P065X	• •
750mA	07500	1.50	60	40	0.92	3.75 6.3	0.250 0.600	RLD60P075X	• •
900mA	09000	1.80	60	40	0.99	4.50 7.2	0.200 0.470	RLD60P090X	• •
1.10A	11100	2.20	60	40	1.5	5.50 8.2	0.150 0.380	RLD60P110X	• •
1.35A	11350	2.70	60	40	1.7	6.75 9.6	0.120 0.300	RLD60P135X	• •
1.60A	11600	3.20	60	40	1.9	8.00 11.4	0.090 0.220	RLD60P160X	• •
1.85A	11850	3.70	60	40	2.1	9.25 12.6	0.080 0.190	RLD60P185X	• •
2.50A	12500	5.00	60	40	2.5	12.50 15.6	0.050 0.130	RLD60P250X	• •
3.00A	13000	6.00	60	40	2.8	15.00 19.8	0.040 0.100	RLD60P300X	• •
3.75A	13750	7.50	60	40	3.2	18.75 24.0	0.030 0.080	RLD60P375X	• •

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.

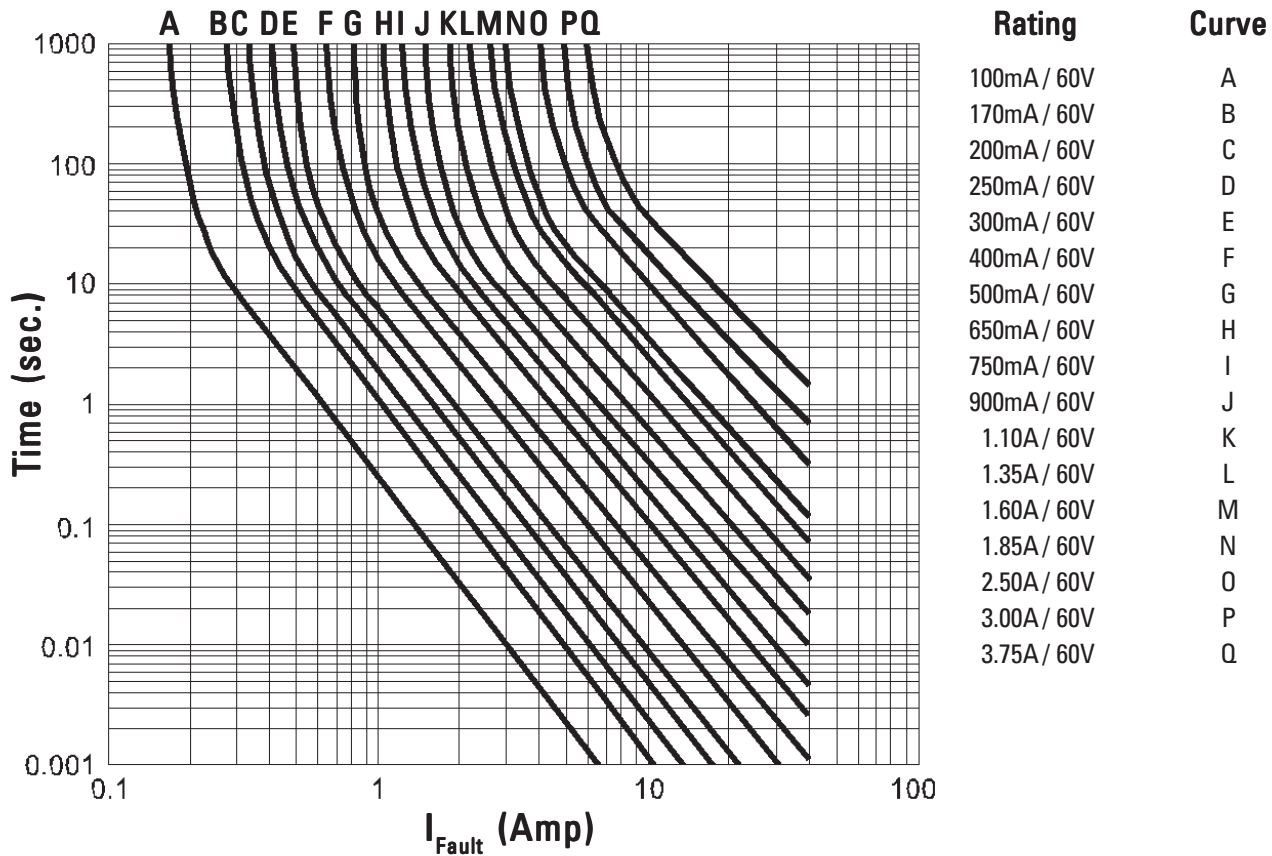
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame. Specifications are subject to change without notice.

Order Information

Qty.	Order-Number	Series	Model Code	Packaging
		708		

RLD60 / No. 708

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