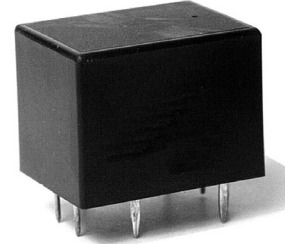


Greenwich Electronics, Inc.

LD1 Series

- Miniature DPDT relay
- 1 to 5A switching
- Silver alloy contacts
- Applications: automotive, lighting, light duty controls, general purpose



COIL DATA

Nominal Voltage (DC)	Nominal Coil Current (mA) (± 10% at 20°C)	Coil Resistance (Ω) (± 10% at 20°C)
3	150	20
6	75	80
9	50	180
12	38	320
24	20	1200

Pick-up Voltage	≤75% nominal
Drop-out Voltage	≥10% nominal
Max. Coil Voltage	130% nominal
Coil Consumption	Approx. 0.45W

Contact

Configuration	2C: 2 form C (DPDT)
Material	Silver (Ag) alloy
Rated Load	1: 1A@28VDC / 125VAC 3: 3A@28VDC / 125VAC 5: 5A@28VDC / 125VAC
Max. Carry Current	5A
Max. Switching Voltage	50VDC / 380VAC
Max. Switching Current	5A
Max. Switching Power	90W / 360VA

CHARACTERISTICS

Contact Resistance	Max. 100mΩ
Operate Time	≤10ms
Release Time	≤5ms
Insulation Resistance	100MΩ (@500VDC)

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Dielectric Strength:

- Between coil and contacts 1000VAC - one minute
- Between open contacts 750VAC - one minute
- Between contact sets 750VAC - one minute

Vibration Resistance 10-50Hz, double amplitude 1.5mm

Shock Resistance Approx. 10g

Ambient Temperature

- Operate -40⁰C to 85⁰C
- Storage -40⁰C to 155⁰C

Relative Humidity 85%@40⁰F

Life Expectancy:

- Mechanical 1 x 10⁷
- Electrical 1 x 10⁵ (at rated load)

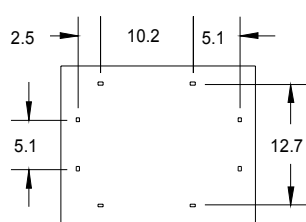
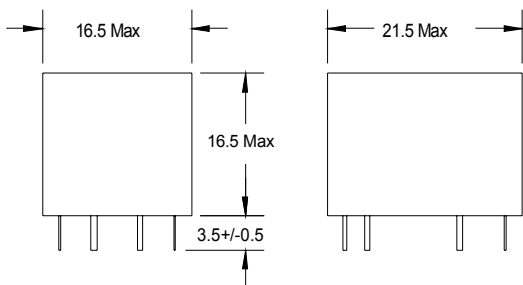
Weight Approx. 12 grams

ORDERING INFORMATION

$\frac{\underline{LD1}}{I}$ - $\frac{\underline{012}}{II}$ - $\frac{\underline{2C}}{III}$ $\frac{\underline{3}}{IV}$ $\frac{\underline{D}}{V}$ $\frac{\underline{F}}{VI}$

- | | | |
|------|-----------------------|---------------------------------------|
| I. | Series | LD1 |
| II. | Coil Voltage (VDC) | 003, 006, 009, 012, 024 |
| III. | Contact configuration | 2C - 2 form C (DPDT) |
| IV. | Contact Rating | 1 - 1A, 3 - 3A, 5 - 5A |
| V. | Package Type | D - dust cover, S - Sealed |
| VI. | Temperature rating | nil - Class "B", F - Class "F" |

LD1 Series Dimensions and Schematics (in mm)



Terminal arrangement and wiring diagram

