

■ Features

- Molded epoxy body
- DIP type construction with the same terminal pitch as ICs or TTLs simplifies PC board designing. In addition, the high sensitivity allows direct driving by TTL, etc.
- Automatic insertion compatible
- Sealed construction permits automatic flow soldering and cleaning
- Magnetic shield is available

UL E155513
 C-UL E155513



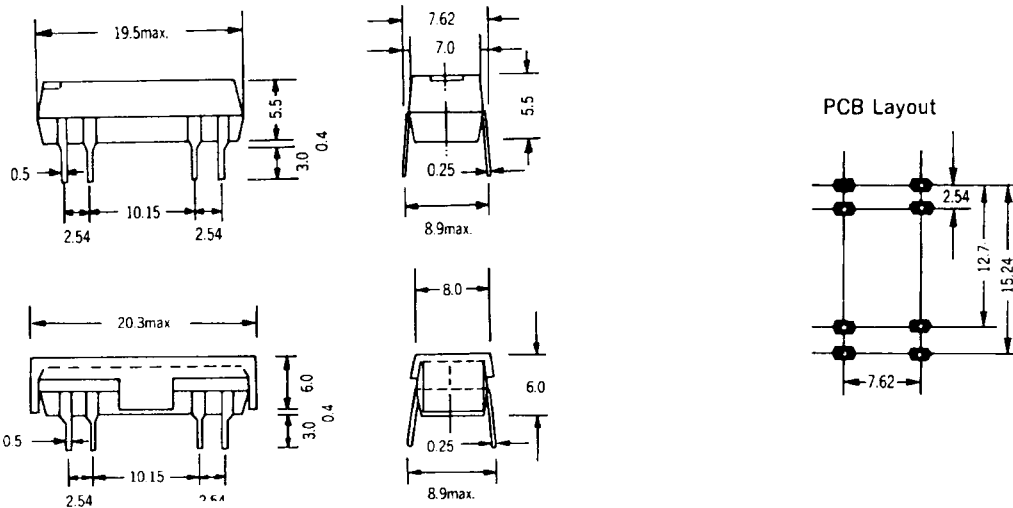
■ Coil Rating (20°C)

| Contact Form | Part Number | Nominal Voltage (VDC) | Coil Resistance (Ω) ± 10% | Must Operate (VDC) | Must Release (VDC) | Rated Current (mA) | Continuous Voltage (Max) | Special Features |
|-------------------|-------------|-----------------------|---------------------------|--------------------|--------------------|--------------------|--------------------------|------------------|
| 1A SPST-NO | D1A0510 | 5 | 500 | 3.75 | 1.0 | 10 | 10 | standard |
| | D1A1210 | 12 | 1000 | 9.0 | 1.2 | 12 | 20 | standard |
| | D1A2410 | 24 | 2150 | 18.00 | 2.4 | 11.1 | 28 | standard |
| | D1A051D | 5 | 500 | 3.75 | 1.0 | 10 | 10 | with diode |
| | D1A121D | 12 | 1000 | 9.0 | 1.2 | 12 | 20 | with diode |
| | D1A241D | 24 | 2150 | 18.00 | 2.4 | 11.1 | 28 | with diode |
| 1B SPST-NC | D1B0510 | 5 | 500 | 3.75 | 1.0 | 10 | 7 | standard |
| | D1B1210 | 12 | 1000 | 9.00 | 1.2 | 12 | 15 | standard |
| | D1B2410 | 24 | 2150 | 18.00 | 2.4 | 11.1 | 28 | standard |
| | D1B051D | 5 | 500 | 3.75 | 1.0 | 10 | 7 | with diode |
| | D1B121D | 12 | 1000 | 9.00 | 1.2 | 12 | 15 | with diode |
| | D1B241D | 24 | 2150 | 18.00 | 2.4 | 11.1 | 28 | with diode |
| 2A DPST-NO | D2A0510 | 5 | 140 | 3.75 | 1.0 | 35.7 | 10 | standard |
| | D2A1210 | 12 | 500 | 9.00 | 1.2 | 24 | 20 | standard |
| | D2A2410 | 24 | 2150 | 18.00 | 2.4 | 11.1 | 28 | standard |
| | D2A051D | 5 | 140 | 3.75 | 1.0 | 35.7 | 10 | with diode |
| | D2A121D | 12 | 500 | 9.00 | 1.2 | 24 | 20 | with diode |
| | D2A241D | 24 | 2150 | 18.00 | 2.4 | 11.1 | 28 | with diode |
| 1C SPDT-CO | D1C0510 | 5 | 200 | 3.75 | 1.0 | 25 | 10 | standard |
| | D1C1210 | 12 | 500 | 9.00 | 1.2 | 24 | 20 | standard |
| | D1C2410 | 24 | 2150 | 18.00 | 2.4 | 11.1 | 28 | standard |
| | D1C051D | 5 | 200 | 3.75 | 1.0 | 25 | 10 | with diode |
| | D1C121D | 12 | 500 | 9.00 | 1.2 | 24 | 20 | with diode |
| | D1C241D | 24 | 2150 | 18.00 | 2.4 | 11.1 | 28 | with diode |

■ Specifications

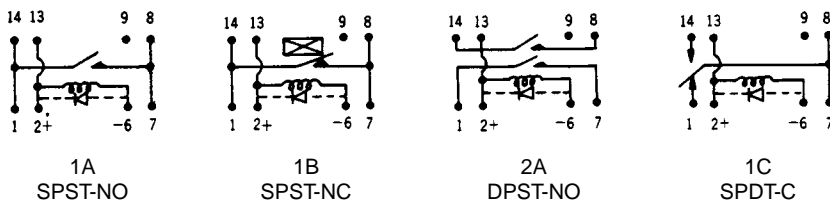
| Item | Contact Form | 2A 1A 1B | 1C |
|---------------------------|--------------|---------------------------------|------------------------------------|
| Contact Resistance | | 100m Ω max. initial | 150m Ω max. initial |
| Operate Time | | 0.5msec max. | 1.0msec max. |
| Bounce Time | | 0.5msec max. | 2.0msec max. |
| Release Time | | 0.2msec max. | 0.2msec max. |
| Insulation Resistance | | 10 ¹¹ Ω min. | 10 ¹¹ Ω min. |
| Power | | 10VA max. | 3VA max. |
| Switching Voltage | | 200VDC max. | 100VDC max. |
| Switching Current | | 0.5Amps max. | 0.25Amps max. |
| Carry Current | | 1.0Amps max. | 0.5Amps max. |
| Life Expectancy | | 10 ⁸ (signal level) | 5 x 10 ⁷ (signal level) |
| Minimum Breakdown Voltage | | 250VDC across open contact | 200VDC across open contact |
| | | 500VDC between coil and contact | 500VDC between coil and contact |
| Operating Temperature | | -40°C ~ +85°C | -40°C ~ +85°C |
| Storage Temperature | | -50°C ~ +125°C | -50°C ~ +125°C |
| Minimum Permissible Load | | 100mVDC 10 μ A | 100mVDC 10 μ A |
| Vibration | | 20g (10 ~ 2000Hz) | 20g (10 ~ 2000Hz) |
| Shock | | 30g (11ms. 1/2 sin wave) | 30g (11ms. 1/2 sin wave) |
| Resonant Frequency | | 3.5KHz | 3.5KHz |

■ Dimensions



(With Magnetic Shield).

Circuit Schematic Top View



For Ordering Magnetic Shield Option
 Replace 7th digit, 0 as shown below:
 Standard + Shield = M ie, D1A051M
 Diode + Shield = X ie, D1A051X