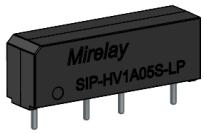
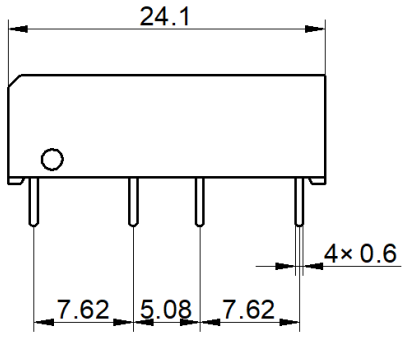
# SIP-HV1A05S-LPN

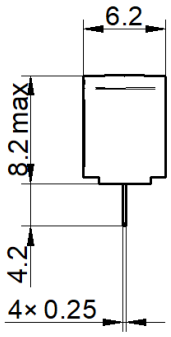
- High Voltage Reed Relay
- Low Contact Resistance
- Breakdown up to 4 kVDC
- Excellent Lifetime Characteristics
- Custom Design Available



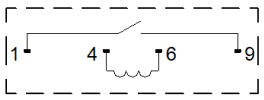

## Outline Dimension

**Unit: mm DIM Tolerance: ±0.3**

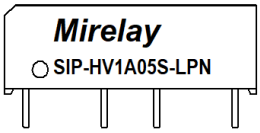



## Layout [Top View]




## Marking




## Coil Parameters (at 20℃)

| Nominal Coil Voltage | Nominal Current | Coil Resistance | Max Pull-in Voltage | Min Drop-out Voltage |
|---|---|---|---|---|
| 5 VDC | 42 mA | 120±10% Ω | 3.5 VDC | 0.5 VDC |

## Contact Parameters

| | | | |
|---|---|---|---|
| Contact Form | 1 Form A | Max Contact Rating | 100 W |
| Max Switch Voltage | 1.5 kVDC | Max Switch Current | 1.0 A |
| Max Carrying Current | 2.5 A | Min Breakdown Voltage | 4 kVDC |
| Max Contact Resistance | 150 mΩ | Life Expectancy (Electrical) (at 5 VDC 10mA) | $5\times10^{8}$ops |

## Electrical Specifications

| | | | | | |
|---|---|---|---|---|---|
| Dielectric Strength (Static,min) | Open contacts | 4 kVDC | Insulation Resistance (min./typ.) Rh<45%, 200V Test Voltage | Open contacts | $1\times10^{12}$ Ω |
| | Contact to coil | 4 kVDC | | Contact to coil | $1\times10^{12}$ Ω |
| Operate Time,incl.Bounce | | 1.0 ms | Capacitance | Across Open Switch | 0.5 pF |
| Reset Time | | 0.25 ms | | | |

## Environmental data

| | | | |
|---|---|---|---|
| Vibration (10 to 2KHz 1.5mm ) | 20 G | Shock (1/2 sine wave duration 11ms ) | 50 G |
| Operating Temperature | -40℃ ~ 85℃ | Storage Temperature | -40℃ ~ 105℃ |
| Soldering Temperature (5 sec. dwell) | 260℃ | Washability | fully sealed |

## Example of order marking

| Product model | Contact form | Nominal Coil Voltage | Option | | Special code |
|---|---|---|---|---|---|
| SIP-HV | 1A：1 Form A | 05：5 VDC | S：Mangnetic Shield | | LPN：Long Pin And Internal shielding |

| | | | | |
|---|---|---|---|---|
| Remark: **RoHS** | Make | Li Linmao | TITLE High Voltage Reed Relay | |
| | Checke | Hu Shu | | |
| | Approved | Dong Hu | P/N SIP-HV1A05S-LPN | Version: 04 |
| | Date | 8th,Jan,2025 | | Page: 1/1 |