

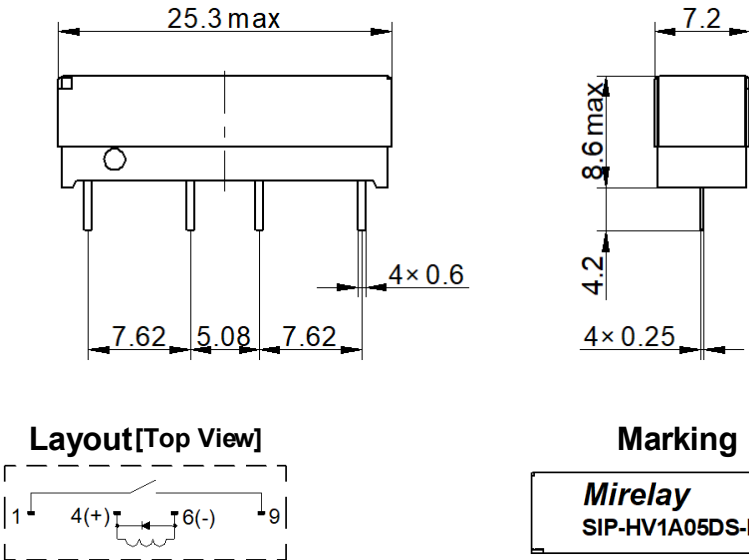
SIP-HV1A05DS-LP

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

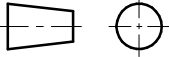


Outline Dimension

Unit: mm    DIM Tolerance: ±0.3



| 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)<br>(at 5 VDC 10mA)                |                     | 5×10 <sup>8</sup> ops |        |
| Electrical Specifications            |                 |                      |                                                                |                     |                       |        |
| Dielectric Strength<br>(Static,min)  | Open contacts   | 4 kVDC               | Insulation Resistance<br>(min./typ.) Rh<45%, 200V Test Voltage | Open contacts       | 1×10 <sup>12</sup> Ω  |        |
|                                      | Contact to coil | 4 kVDC               |                                                                | Contact to coil     | 1×10 <sup>12</sup> 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            | DS: Diode+Mangnetic Shield                                     |                     | LP: Long Pin          |        |

|                            |          |              |                                                                |                                                                                                                   |
|----------------------------|----------|--------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Remark:<br><br><b>RoHS</b> | Make     | Li Linmao    | TITLE<br>High Voltage Reed Relay<br><br>P/N<br>SIP-HV1A05DS-LP | <br>Version: 04<br>Page: 1/1 |
|                            | Checke   | Hu Shu       |                                                                |                                                                                                                   |
|                            | Approved | Dong Hu      |                                                                |                                                                                                                   |
|                            | Date     | 8th,Jan,2025 |                                                                |                                                                                                                   |