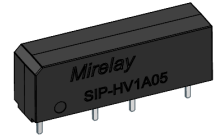
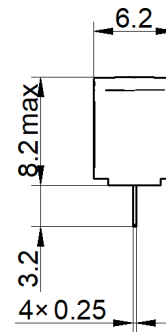
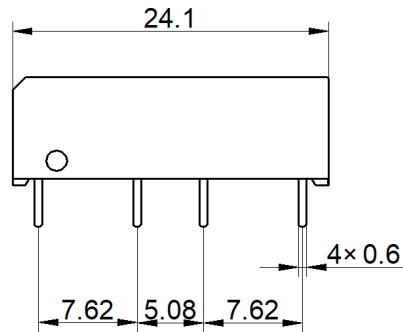


## SIP-HV1A05

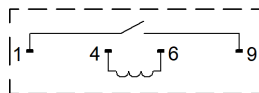
- High Voltage Reed Relay
- Low Contact Resistance
- Breakdown up to 4 kVDC
- Excellent Lifetime Characteristics
- Custom Design Available



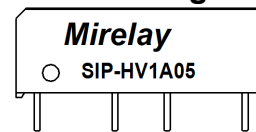
### Outline Dimension

Unit: mm DIM Tolerance:  $\pm 0.3$ 

### Layout[Top View]



### Marking



### Coil Parameters (at 20°C)

| Nominal Coil Voltage | Nominal Current | Coil Resistance        | Max Pull-in Voltage | Min Drop-out Voltage |
|----------------------|-----------------|------------------------|---------------------|----------------------|
| 5 VDC                | 42 mA           | 120 $\pm$ 10% $\Omega$ | 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 m $\Omega$ | Life Expectancy (Electrical)<br>(at 5 VDC 10mA) | 5 $\times$ 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 $\times$ 10 <sup>12</sup> $\Omega$ |
|                                     | Contact to coil | 4 kVDC  |                                                                | Contact to coil    | 1 $\times$ 10 <sup>12</sup> $\Omega$ |
| 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°C ~ 85°C | Storage Temperature                  | -40°C ~ 105°C |
| Soldering Temperature (5 sec. dwell) | 260°C        | 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            | Nil: Standard Type | Nil          |

Remark:

**RoHS**

Make

Li Linmao

Checke

Hu Shu

Approved

Dong Hu

Date

8th,Jan,2025

TITLE

High Voltage Reed Relay

P/N

SIP-HV1A05



Version: 04

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