PUBLIC PRODUCT DATASHEET

High v oltage Reed Relay

SIP HV Reed Relay is part of the Miniature Reed Relay range from SHR MiRelay. This English public datasheet has been rebuilt under the current SHR AUTOSENSOR TECH LIMITED identity for customer selection, sample purchase and RFQ support.

Product Family Miniature Reed Relay	**Model** SIP HV Reed Relay	**Purchase Path** Sample order or RFQ confirmation
Manufacturer SHR AUTOSENSOR TECH LIMITED	**Website** www.reed-relay.com	**Sales Contact** sales@reed-relay.com
Contact Form 1A: 1 Form A	**Contact Rating** 100	**Max. Carry Current** t 60 deg C A 2.5
Contact Resistance , excellent lifetime characteristics	**Insulation Resistance** , up to 1012Ω	**Operate Time** 1.0

Key Features

- Dielectric strength up to 4000 VDC
- High speed switch, high voltage up to 1000 VDC
- High Insulation resistance, up to 1012Ω
- Low contact resistance, excellent lifetime characteristics
- Magnetic shield-reduces interaction
- Custom Design, conforming to Rohs directive

Technical Specifications

Parameter	Value
Contact Form	1A: 1 Form A
Contact Rating	100
Max. Carry Current	t 60 deg C A 2.5
Contact Resistance	, excellent lifetime characteristics
Insulation Resistance	, up to 1012Ω
Operate Time	1.0
Release Time	0.25
Operating Temperature	deg C -20-+70
Storage Temperature	deg C -35-+105

Specification Notes

SIP-HV Series

High v oltage Reed Relay

1 Feature

Dielectric strength up to 4000 VDC

High speed switch, high voltage up to 1000 VDC

High Insulation resistance, up to 1012Ω

Low contact resistance, excellent lifetime characteristics

Magnetic shield-reduces interaction

Custom Design, conforming to Rohs directive

2 Performance Data

Relay Model / SIP-HV1A

Contact Rating W 100

Max.Switching Voltage (Max DC/Peak AC) V 1000

Max.Switching Current (Max DC/Peak AC) A 1.0

Max.Carry Current at 60 deg C A 2.5

Contact Resistance mΩ 150

Dielectric

Strength

(static)

Between contact VDC 4000

Contact/shield to coil VDC 4000

Insulation Resistance Ω 1012

Operate Time ms 1.0

Release Time ms 0.25

Vibration(0-2000Hz) G 20

Shock(11ms, 1/2 sine) G 50

Operating Temp deg C -20-+70

Storage Temp deg C -35-+105

Life Expectancy Ops 5×108(at 5VDC-10mA)

Outline Dimensions / Reference outline drawing

3 Coil Parameters

Model Nominal Voltage

(VDC)

Pickup Voltage

Max.(VDC)

Dropout Voltage

Min.(VDC)

Operate Voltage

Coil Resistance

(±10%Ω at 20 deg C)

SIP-HV1A

5 3.5 0.5 15 120

12 9 1.2 35 500

24 17 2.4 50 2000

SHR SHR MiRelay SHR AUTOSENSOR TECH LIMITED REALY

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Leading Global Manufacturer of Reed Relays

4 Example of order marking

SIP-HV - -(XXX)

① ② ③ ④ ⑤

37 Product model: SIP-HV

38 Contact form: 1A: 1 Form A

39 Nominal coil voltage: 05: 5VDC; 12: 12VDC; 24: 24VDC

40 Features: Blank: Standard; D: With Diode; S: With magnetic shield; DS: With Diode and magnetic shield

41 Special code: Customer special requirement

5 Outline drawing

6 Wiring diagram

1) 2)

7 Precautions for use

Ordering & Engineering Support

For production projects, confirm coil voltage, contact form, switching voltage/current, load type, operating environment, target quantity and required approvals before release. Contact sales@reed-relay.com or +86 137 6157 1029 for datasheet confirmation, sample availability and cross-reference support.

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