PUBLIC PRODUCT DATASHEET

Reed Relay

MSIP-1A05BS-ATE 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** MSIP-1A05BS-ATE	**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** 10	**Max. Carry Current** t 60 deg C A 1.0
Contact Resistance 100	**Insulation Resistance** , up to 1012Ω	**Operate Time** 0.5

Key Features

- Molded thermoset body on integral lead frame design
- Optional coil suppression diode protects coil drive circuits
- High Insulation resistance, up to 1012Ω
- High speed switch,high reliability,long life sealed contact
- Magnetic shield-reduces interaction
- Custom Design, conforming to Rohs directive

Technical Specifications

Parameter	Value
Contact Form	1A: 1 Form A
Contact Rating	10
Max. Carry Current	t 60 deg C A 1.0
Contact Resistance	100
Insulation Resistance	, up to 1012Ω
Operate Time	0.5
Release Time	0.3
Operating Temperature	deg C -20-+70
Storage Temperature	deg C -35-+105

Specification Notes

MSIP Series

Reed Relay

1 Feature

Molded thermoset body on integral lead frame design

Optional coil suppression diode protects coil drive circuits

High Insulation resistance, up to 1012Ω

High speed switch,high reliability,long life sealed contact

Magnetic shield-reduces interaction

Custom Design, conforming to Rohs directive

2 Performance Data

Relay Model / MSIP-1A

Contact Rating W 10

Max.Switching Voltage (Max DC/Peak AC) V 250

Max.Switching Current (Max DC/Peak AC) A 0.5

Max.Carry Current at 60 deg C A 1.0

Contact Resistance mΩ 100

Dielectric

Strength

(static)

Between contact VDC 250

Contact/shield to coil V 1500

Insulation Resistance Ω 1012

Operate Time ms 0.5

Release Time ms 0.3

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 5×107(at 10VDC-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)

MSIP-1A

5 4 0.4 21 500

12 9 1 30 1000

SHR SENSOR & RELAY

sales@reed-relay.com

4 Example of order marking

MSIP - -(XXX)

① ② ③ ④ ⑤

47 Product model: MSIP

48 Contact form: 1A: 1 Form A

49 Nominal coil voltage: 05: 5VDC(1); 12: 12VDC; 24: 24VDC

50 Features: Blank: Standard; B: With Diode; S: With magnetic shield; BS: With Diode and magnetic shield

51 Special code: Customer special requirement

Note: (1) 5V DC is high resistance specification, suffix with “-HR”.

5 Outline drawing

6 Wiring diagram

1) 2)

7 Precautions for use

■ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.

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.

Address: Room 311, No. 18 Hangchuan Road, Pudong New District, Shanghai, China

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