PUBLIC PRODUCT DATASHEET

MRS05 series reed switch integrated resistor sample V2.0 Magnetic Sensor / Reed Switch Datasheet

MRS05 series reed switch integrated resistor sample V2.0 is part of the Magnetic Sensor / Reed Switch 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 Magnetic Sensor / Reed Switch	**Model** MRS05 series reed switch integrated resistor sample V2.0	**Purchase Path** Sample order or RFQ confirmation
Manufacturer SHR AUTOSENSOR TECH LIMITED	**Website** www.reed-relay.com	**Sales Contact** sales@reed-relay.com
Contact Resistance (@0.5V&50mA) mΩ 200	**Insulation Resistance** , up to 109Ω	**Release Time** 0.1
Operating Temperature erature deg C -40-+130	**Storage Temperature** erature deg C -50-+130	**High Insulation resistance, up to** 109Ω

Key Features

- Small single-contact switch
- Single in-line package
- High Insulation resistance, up to 109Ω
- Suitable for low power operation
- Custom Design, conforming to Rohs directive

Technical Specifications

Parameter	Value
Contact Resistance	(@0.5V&50mA) mΩ 200
Insulation Resistance	, up to 109Ω
Release Time	0.1
Operating Temperature	erature deg C -40-+130
Storage Temperature	erature deg C -50-+130
High Insulation resistance, up to	109Ω
Switching Voltage(Max DC/Peak AC) V	200
Switching Current(Max DC/Peak AC) A	0.5
Carry current(max.) A	1.0
Contact Resistance(@0.5V&50mA) mΩ	200
Breakdown Voltage VDC	250
Insulation Resistance(Rh<45%,100V Test Vo	109

Specification Notes

MRS05 Series

Reed Switch Integrated Resistor

1 Feature

Small single-contact switch

Single in-line package

High Insulation resistance, up to 109Ω

Suitable for low power operation

Custom Design, conforming to Rohs directive

2 Performance Data

Model / MRS05-

Rated Power(max.) W 10

Switching Voltage(Max DC/Peak AC) V 200

Switching Current(Max DC/Peak AC) A 0.5

Carry current(max.) A 1.0

Contact Resistance(@0.5V&50mA) mΩ 200

Breakdown Voltage VDC 250

Insulation Resistance(Rh<45%,100V Test Vo ltage) Ω 109

Operating Time(max.) ms 0.6

Release Time(max.) ms 0.1

Capacitance(typ.) pF 0.4

Vibration Resistance G 20

Shock Resistance(1/2 sine wave duration 11ms) G 30

Operating Temperature deg C -40-+130

Storage Temperature deg C -50-+130

3 Example of order marking

MRS05 - - (XXX)

① ② ③ ④

① Product model: MRS05

② Magnetic sensitivity(AT): A: 05-10; B: 10-15; C: 15-20

D: 20-25; E: 25-30; F: 30-35

③ Resistance value: 56: 56Ω (1

8 W); 100: 100Ω (1

W); ……(Can be defined as required)

④ Special code: Customer special requirement

SHR SENSOR & RELAY

sales@reed-relay.com

4 Outline drawing

5 Layout

6 Precautions for use

■ Avoid installation in areas directly exposed to rain, strong magnetic fields, or near objects with thermal radiation.

■ Avoid excessive bulk density in use, which may affect the electrical characteristics of the switch.

■ Excessive mechanical shock strength may change its magnetic sensitivity or even damage the switch.

■ Use appropriate pin tightening or heat dissipation to prevent mechanical or thermal stress during welding.

■ The maximum welding temperature is 260 deg C and the time is less than 5 seconds.

Statement:

he document is for customer reference only.Specifications and parameters may be changed due to product improvement. For the specific parameters and performance of each product, please refer to the specifications and samples provided by SHR SHR MiRelay without further notice.

Performance parameters vary from application area to application area, so customers should choose the appropriate product according to the specific conditions of use, if in doubt, please contact SHR SHR SHR MiRelay Electronics Co. , Ltd. for more technical support.

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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