PUBLIC PRODUCT DATASHEET

High voltage Reed Relay

HVFR12-1A is part of the High Voltage 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 High Voltage Reed Relay	**Model** HVFR12-1A	**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; 2A: 2 Form A; 3A: 3 Form A; 4A: 4 Form A	**Contact Rating** 100	**Max. Carry Current** t 60 deg C A 2.5
Contact Resistance , excellent lifetime characteristics	**Insulation Resistance** , up to 1013Ω	**Operate Time** 1.0

Key Features

- High power reed relay with dielectric strength up to 4000VDC
- High carry current
- High Insulation resistance, up to 1013Ω
- Low contact resistance, excellent lifetime characteristics
- External magnetic and electrostatic shield
- Custom Design, conforming to Rohs directive

Technical Specifications

Parameter	Value
Contact Form	1A: 1 Form A; 2A: 2 Form A; 3A: 3 Form A; 4A: 4 Form A
Contact Rating	100
Max. Carry Current	t 60 deg C A 2.5
Contact Resistance	, excellent lifetime characteristics
Insulation Resistance	, up to 1013Ω
Operate Time	1.0
Release Time	1.0
Operating Temperature	deg C -20-+70
Storage Temperature	deg C -35-+105

Specification Notes

HVFR Series

High voltage Reed Relay

1 Feature

High power reed relay with dielectric strength up to 4000VDC

High carry current

High Insulation resistance, up to 1013Ω

Low contact resistance, excellent lifetime characteristics

External magnetic and electrostatic shield

Custom Design, conforming to Rohs directive

2 Performance Data

Relay Model / HVFR-

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 120

Dielectric

Strength

(static)

Between contact V 4000

Contact/shield to coil V 4000

Contacts to shield V 4000

Insulation Resistance Ω 1013

Operate Time ms 1.0

Release Time ms 1.0

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 500VDC-100mA)

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)

HVFR-1A

HVFR-2A

5 4 0.5 6.5 100

12 9 1 16 400

24 18 2 29 1600

SHR SENSOR & RELAY

sales@reed-relay.com

HVFR-3A

12 9 1 16 300

24 18 2 29 1200

HVFR-4A

4 Example of order marking

HVFR - -(XXX)

① ② ③ ④ ⑤

① Product model: HGFR

② Nominal coil voltage: 05: 5VDC; 12: 12VDC; 24: 24VDC

③ Contact form: 1A: 1 Form A; 2A: 2 Form A; 3A: 3 Form A; 4A: 4 Form A

④ Layout: Blank: Verlical mount; 01: Flat mount

⑤ Special code: Customer special requirement

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

Document rebuilt: 2026-05-05 | Source filename: HVFR12-1A.pdf