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SIP-HV Series

High voltage Reed Relay

1 Feature

- Dielectric strength up to 4000 VDC
- High speed switch, high voltage up to 1000 VDC
- High Insulation resistance, up to $10^{12}\Omega$
- Low contact resistance, excellent lifetime characteristics
- Magnetic shield-reduces interaction
- Custom Design, conforming to Rohs directive

2 Performance Data

Paramenter		Units	Value
Relay Model		/	SIP-HV1A□
Contact Rating		W	100
Max.Swiching Voltage (Max DC/Peak AC)		V	1000
Max.Swiching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current	at 60℃	A	2.5
Contact Resistance		mΩ	150
Dielectric Strength (static)	Between contact	VDC	4000
	Contact/shield to coil	VDC	4000
Insulation Resistance		Ω	10^{12}
Operate Time		ms	1.0
Release Time		ms	0.25
Vibration(0～2000Hz)		G	20
Shock(11ms，1/2 sine)		G	50
Operating Temp		℃	-20～+70
Storage Temp		℃	-35～+105
Life Expectancy		Ops	5×10^{8}(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 Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
SIP-HV1A□	5	3.5	0.5	15	120
	12	9	1.2	35	500
	24	17	2.4	50	2000

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4 Example of order marking

SIP-HV □ - □ □ -(XXX)
① ② ③ ④ ⑤

37 Product model：SIP-HV

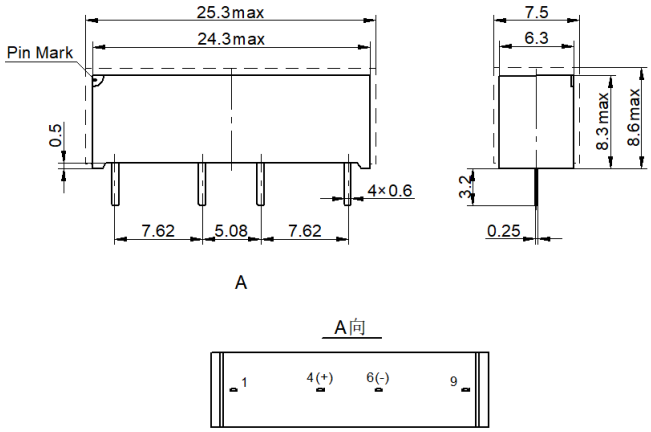
38 Contact form：1A：1 Form A

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

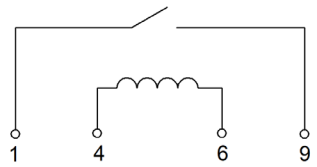
41 Special code：Customer special requirement

5 Outline drawing

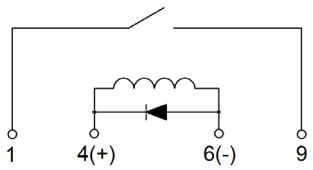


6 Wiring diagram

1) 无二极管



2) 有二极管



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.

※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.

※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.

※ Mechanical impact strength is too large, will cause the relay to use the fault.

※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

⚠Statement：

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VSIP 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 $10^{12}\Omega$
- High speed switch,high reliability,long life sealed contact
- Magnetic shield-reduces interaction
- Custom Design, conforming to Rohs directive

2 Performance Data

Paramenter		Units	Value
Relay Model		/	VSIP-1A□
Contact Rating		W	10
Max.Swiching Voltage (Max DC/Peak AC)		V	200
Max.Swiching Current (Max DC/Peak AC)		A	0.5
Max.Carry Current	at 60℃	A	1.0
Contact Resistance		mΩ	150
Dielectric Strength (static)	Between contact	VDC	150
	Contact/shield to coil	VDC	1400
Insulation Resistance		Ω	10^{12}
Operate Time		ms	0.5
Release Time		ms	0.1
Vibration(0～2000Hz)		G	20
Shock(11ms，1/2 sine)		G	50
Operating Temp		℃	-20～+70
Storage Temp		℃	-35～+105
Life Expectancy		Ops	5×10^{7}(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 Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
VSIP-1A□	5	4	0.4	10	500
	12	9	1	24	1000

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4 Example of order marking

VSIP □ - □ □ -(XXX)
① ② ③ ④ ⑤

42 Product model：MSIP

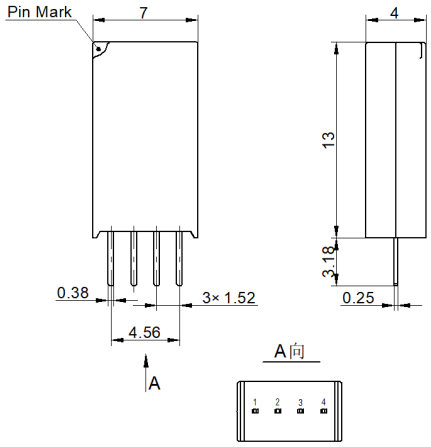
43 Contact form：1A：1 Form A

44 Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

45 Pin type：01、02

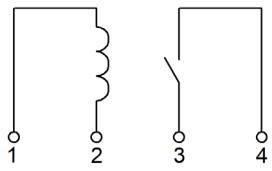
46 Special code：Customer special requirement

5 Outline drawing

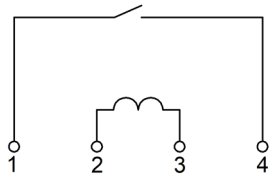


6 Wiring diagram

1) VSIP-1A□-01



2) VSIP-1A□-02



7 Precautions for use

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MSIP Series

Reed Relay

1 Feature

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- Optional coil suppression diode protects coil drive circuits
- High Insulation resistance, up to $10^{12}\Omega$
- High speed switch,high reliability,long life sealed contact
- Magnetic shield-reduces interaction
- Custom Design, conforming to Rohs directive

2 Performance Data

Paramenter		Units	Value
Relay Model		/	MSIP-1A□
Contact Rating		W	10
Max.Swiching Voltage (Max DC/Peak AC)		V	250
Max.Swiching Current (Max DC/Peak AC)		A	0.5
Max.Carry Current	at 60℃	A	1.0
Contact Resistance		mΩ	100
Dielectric Strength (static)	Between contact	VDC	250
	Contact/shield to coil	V	1500
Insulation Resistance		Ω	10^{12}
Operate Time		ms	0.5
Release Time		ms	0.3
Vibration(0～2000Hz)		G	20
Shock(11ms，1/2 sine)		G	50
Operating Temp		℃	-20～+70
Storage Temp		℃	-35～+105
Life Expectancy		Ops	5×10^{7}(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 Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
MSIP-1A□	5	4	0.4	21	500
	12	9	1	30	1000

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4 Example of order marking

MSIP □ - □ □ -(XXX)
① ② ③ ④ ⑤

47 Product model：MSIP

48 Contact form：1A：1 Form A

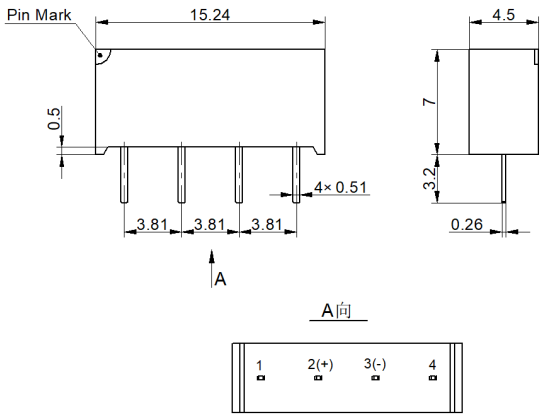
49 Nominal coil voltage：05: 5VDC(1)、12: 12VDC、24: 24VDC

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

51 Special code：Customer special requirement

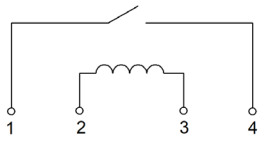
Note: (1) 5V DC is high resistance specification, suffix with "-HR".

5 Outline drawing

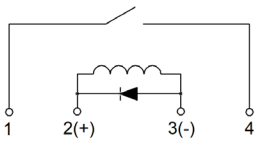


6 Wiring diagram

1)



2)



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