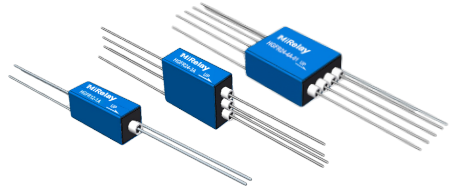


HGFR Series**High voltage Mercury Reed Relay****1 Feature**

- ◆ High power mercury reed relay with dielectric strength up to 3500VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{13}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ External magnetic and electrostatic shield
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

Paramenter		Units	Value		
Relay Model		/	HGFR□-□□L	HGFR□-□□	HGFR□-□□H
Contact Rating		W	50		
Max.Switching Voltage (Max DC/Peak AC)		V	500	1000	1500
Max.Switching Current (Max DC/Peak AC)		A	2.0	2.0	2.0
Max.Carry Current	at 60℃	A	3.0	2.6	3.0
	at 30℃	A		5.2	
Contact Resistance		mΩ	80		
Dielectric Strength (static)	Between contact	V	2000		3500
	Contact/shield to coil	V	2000		3500
	Contacts to shield	V	2000		3500
Insulation Resistance		Ω	10 ¹⁰	10 ¹²	10 ¹³
Operate Time		ms	2.0		
Release Time		ms	2.0		
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 500VDC-100mA)		
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 ($\pm 10\%\Omega$ at 20℃)
HGFR□-1A□	5	4	0.5	6.5	100
HGFR□-2A□	12	9	1	16	400
	24	18	2	29	1600

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Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HGFR□-3A□	12	9	1	16	400
	24	18	2	29	1200
HGFR□-4A□	12	9	1	16	300
	24	18	2	29	1200

4 Example of order marking

- HGFR

□

-

□

□

□

-(XXX)
- ①

②

③

④

⑤

⑥
- 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
- ④

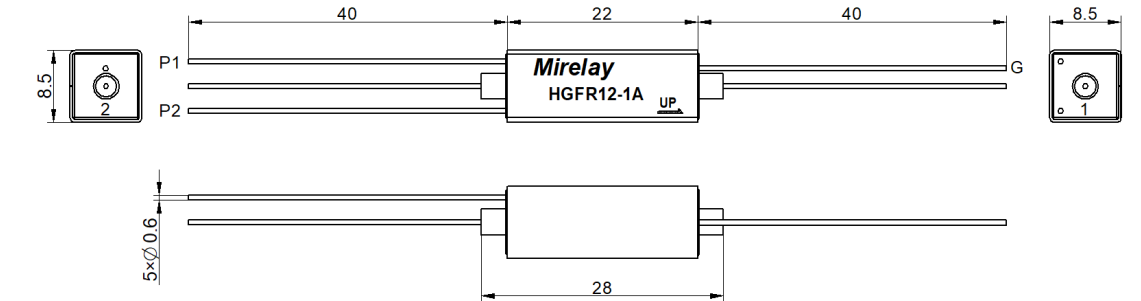
Switch type: Blank: High current、L: Standard、H: High voltage⁽¹⁾
- ⑥

Special code: Customer special requirement

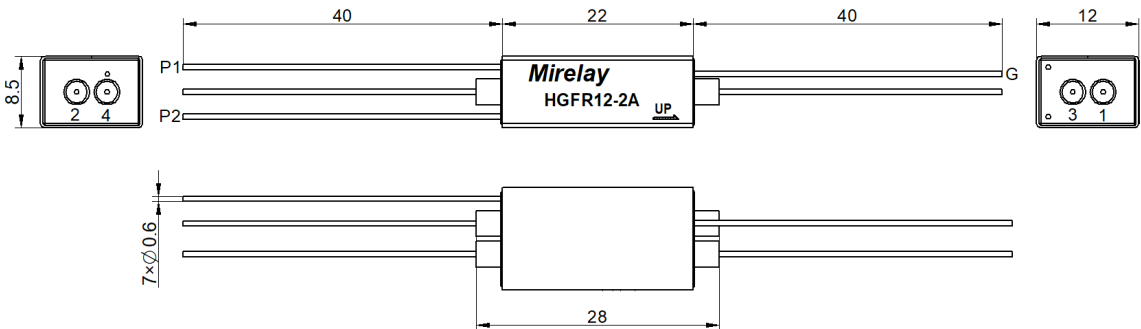
Remarks: (1)No high voltage type with contact from 4A.

5 Outline drawing

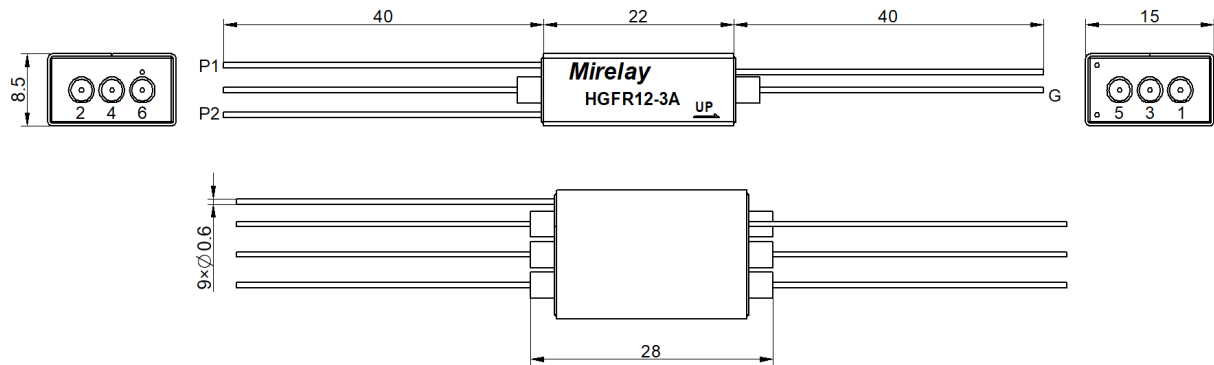
1) HGFR□-1A



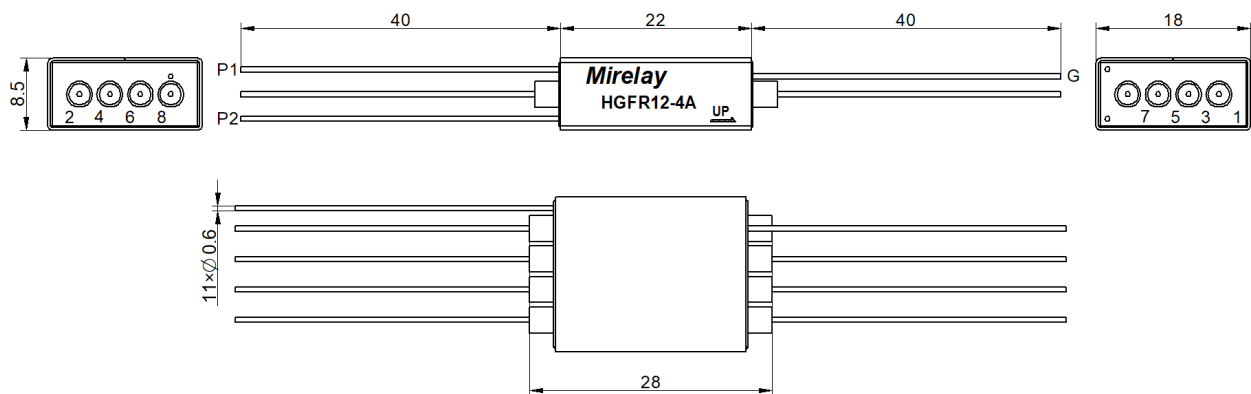
2) HGFR□-2A



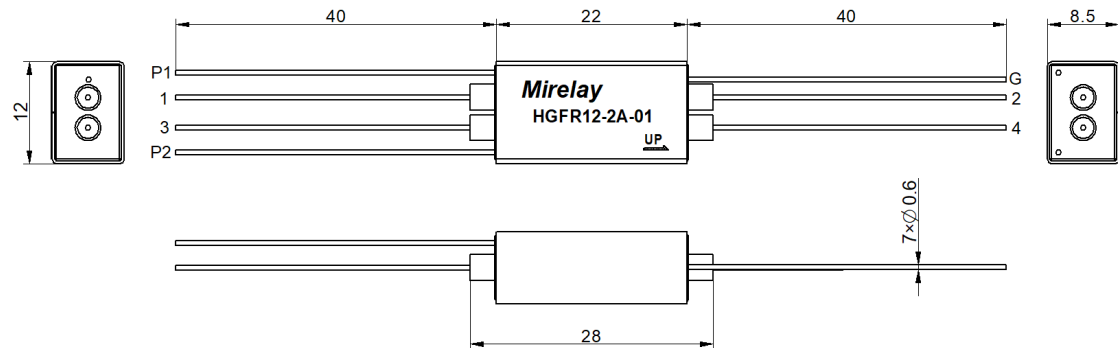
3) HGFR□-3A



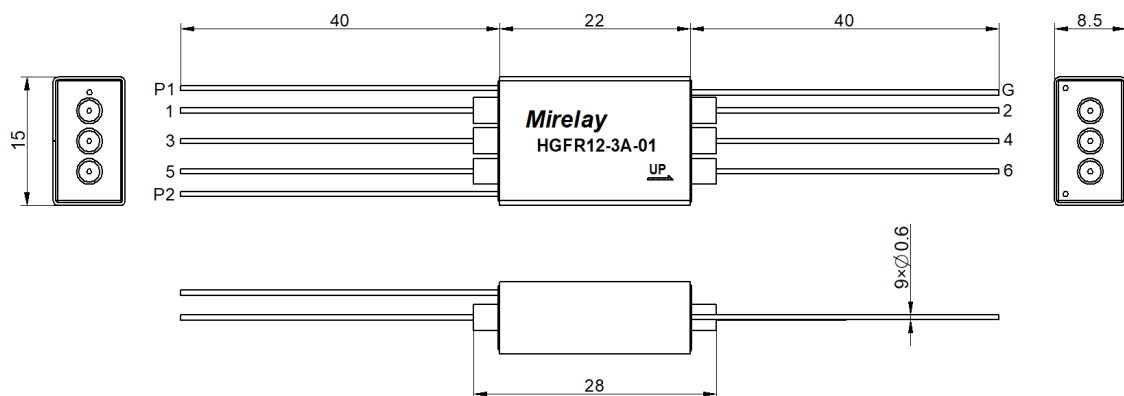
4) HGFR□-4A



5) HGFR□-2A-01



6) HGFR□-3A-01



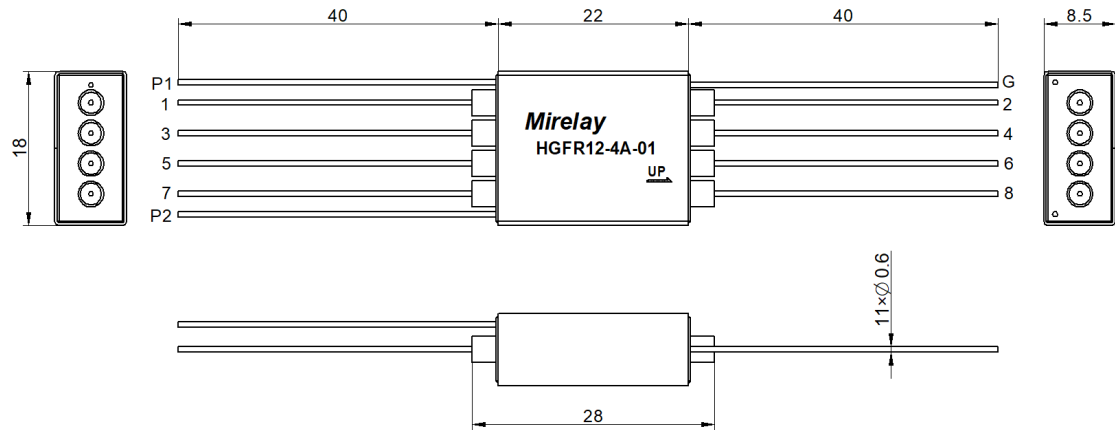
地址：上海市普陀区中山北路 3000 号长城大厦 1007

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邮政编码：200063

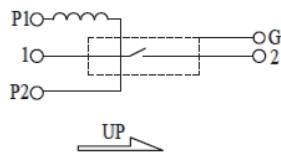
POSTAL CODE:200063

7) HGFR□-4A-01

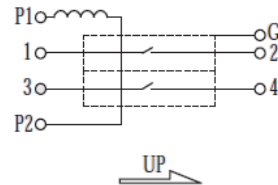


6 Wiring diagram

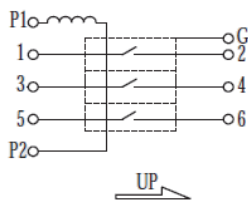
1) HGFR□-1A



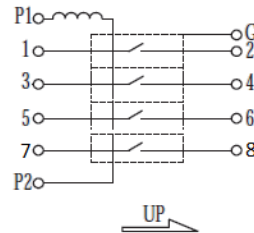
2) HGFR□-2A、HGFR□-2A-01



3) HGFR□-3A、HGFR□-3A-01



4) HGFR□-4A、HGFR□-4A-01



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.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

⚠Statement:

The 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 without further notice.

Relay performance parameters in different application areas are different, so customers should choose the appropriate products according to the specific conditions of use, if in doubt, please contact for more technical support.

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POSTAL CODE: 200063

HGJR Series**High voltage Mercury Reed Relay****1 Feature**

- ◆ High power mercury reed relay with dielectric strength up to 4000VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ External magnetic and electrostatic shield
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

Paramenter		Units	Value	
Relay Model		/	HGJR□-1A□	HGJR□-1C□
Contact Rating		W	100	
Max.Switching Voltage (Max DC/Peak AC)		V	500	
Max.Switching Current (Max DC/Peak AC)		A	2.0	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	80	
Dielectric Strength (static)	Between contact	V	4000	
	Contact/shield to coil	V	4000	
	Contacts to shield	V	4000	
Insulation Resistance		Ω	10^{11}	
Operate Time		ms	2.0	1.5
Release Time		ms	2.0	1.5
Vibration(0~2000Hz)		G	20	
Shock(11ms, 1/2 sine)		G	50	
Operating Temp		°C	-20~+70	
Storage Temp		°C	-35~+105	
Life Expectancy		Ops	5×10^7 (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 Max.(VDC)	Coil Resistance ($\pm 10\%\Omega$ at 20°C)
HGJR□-□□	5	4	0.5	7	125
	12	9	1	16	685
	24	18	2	29	2650

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POSTAL CODE:200063

4 Example of order marking

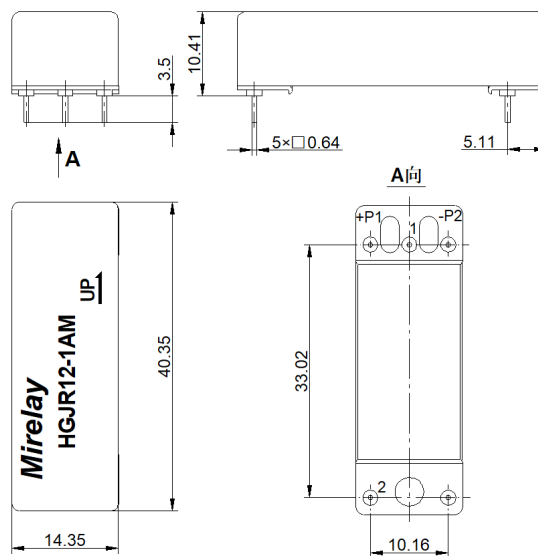
HGJR □ - □ □ - (XXX)

① ② ③ ④ ⑤

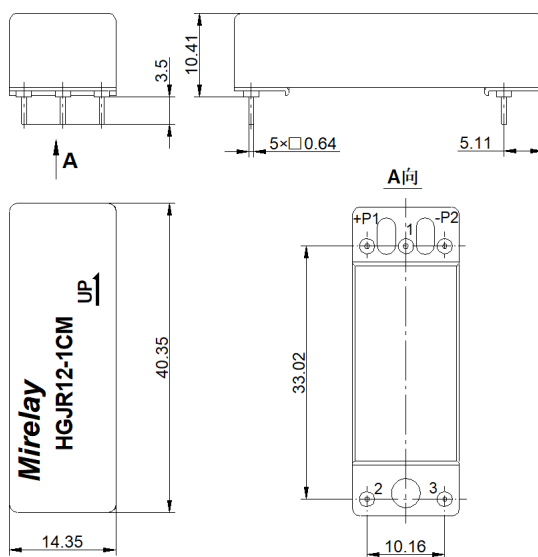
- ① Product model: HGJR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A、1C: 1 Form C
- ④ Construction: M: Metal casing、P: Plastic casing
- ⑤ Special code: Customer special requirement

5 外形尺寸图

1) HGJR□-1A□



2) HGJR□-1C□



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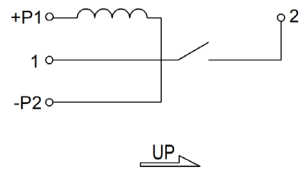
ADDRESS:1007, Great Wall Building, 3000 Zhongshan North Road, Putuo District, Shanghai

邮政编码：200063

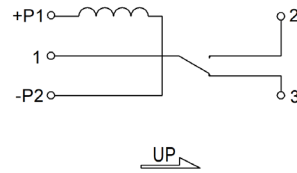
POSTAL CODE:200063

6 接线图

1) HGJR□-1A□



2) HGJR□-1C□



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.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

⚠Statement:

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HGMR Series**High voltage Mercury Reed Relay****1 Feature**

- ◆ High power mercury reed relay with dielectric strength up to 2000VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ External magnetic and electrostatic shield
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

Parameter		Units	Value	
Relay Model		/	HGMR□-□□L	HGMR□-□□
Contact Rating		W	50	
Max.Switching Voltage (Max DC/Peak AC)		V	1000(at 1mA)	
Max.Switching Current (Max DC/Peak AC)		A	1.0	
Max.Carry Current	at 60℃	A	3.0	2.6
	at 30℃	A		5.2
Contact Resistance		mΩ	80	
Dielectric Strength (static)	Between contact	V	2000	
	Contact/shield to coil	V	2000	
	Contacts to shield	V	2000	
Insulation Resistance		Ω	10^{10}	10^{12}
Operate Time		ms	2.0	
Release Time		ms	2.0	
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 500VDC-100mA)	
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 ($\pm 10\%\Omega$ at 20℃)
HGMR□-□	5	4	0.5	7	70
	12	9	1	16	450
	24	18	2	29	1200

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4 Example of order marking

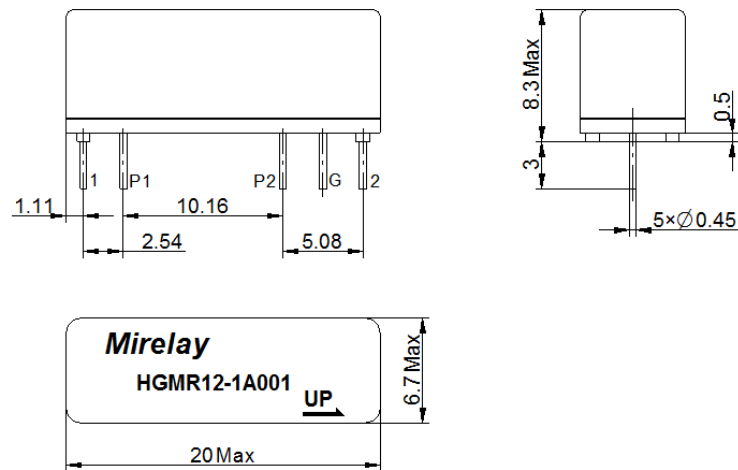
HGMR □ - □ □ □ - (XXX)

① ② ③ ④ ⑤ ⑥

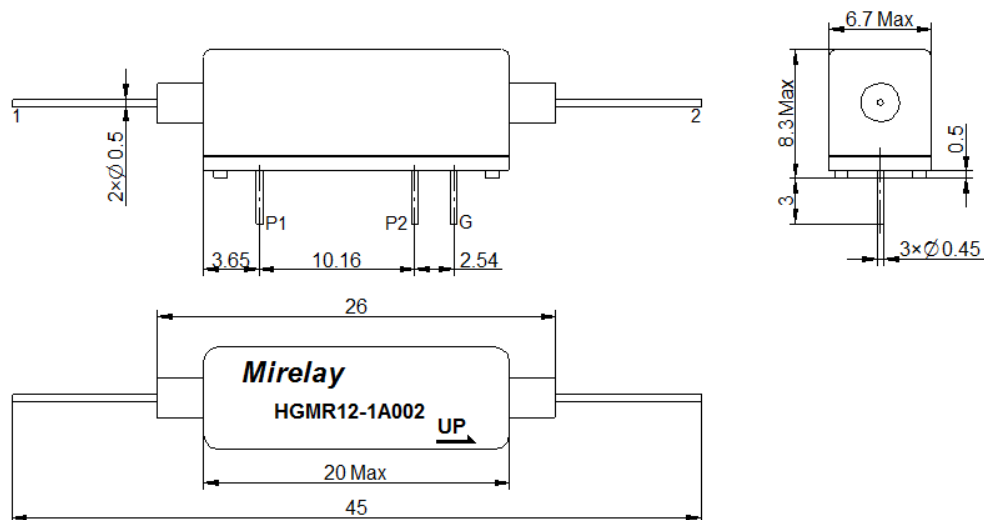
- ① Product model: HGMR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A
- ④ Pin type: 001、002、004、005
- ⑤ Switch type: Blank: High current、L: Standard
- ⑥ Special code: Customer special requirement

5 Outline drawing

1) HGMR□-1A001



2) HGMR□-1A002



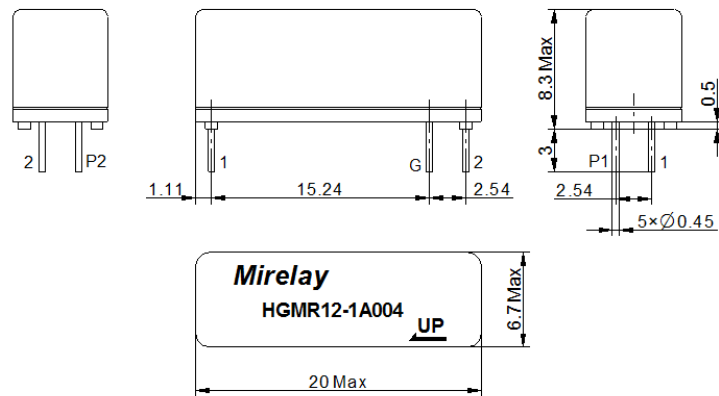
地址：上海市普陀区中山北路 3000 号长城大厦 1007

ADDRESS:1007, Great Wall Building, 3000 Zhongshan North Road, Putuo District, Shanghai

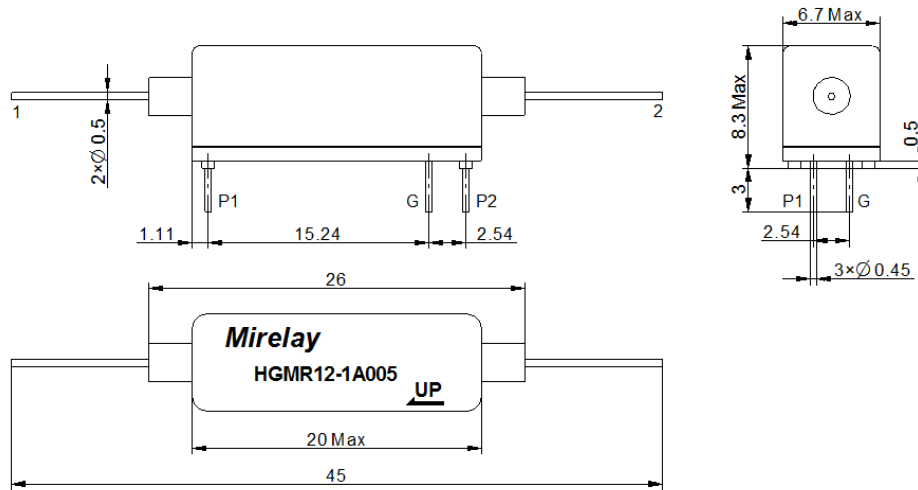
邮政编码：200063

POSTAL CODE:200063

3) HGMR□-1A004

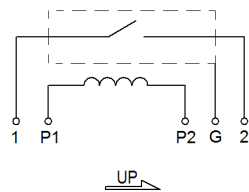


4) HGMR□-1A005

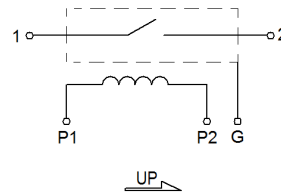


6 Wiring diagram

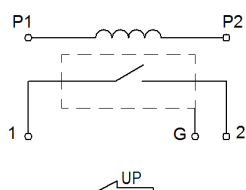
1) HGMR□-1A001



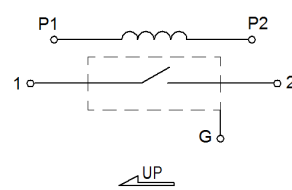
2) HGMR□-1A002



3) HGMR□-1A004



4) HGMR□-1A005



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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.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

Statement:

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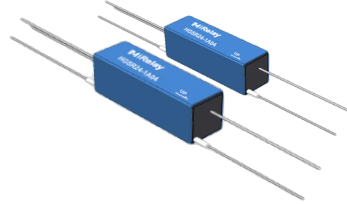
ADDRESS: 1007, Great Wall Building, 3000 Zhongshan North Road, Putuo District, Shanghai

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POSTAL CODE: 200063

HGSR Series**High voltage Mercury Reed Relay****1 Feature**

- ◆ High power mercury reed relay with dielectric strength up to 4000VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{11}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ External magnetic and electrostatic shield
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

Paramenter		Units	Value		
Relay Model		/	HGSR□-1A□	HGSR□-2A□	HGSR□-□C□
Contact Rating		W	100		
Max.Switching Voltage (Max DC/Peak AC)		V	2000(at 1.0mA)		
Max.Switching Current (Max DC/Peak AC)		A	2.0		
Max.Carry Current		A	8.5		
Contact Resistance		mΩ	80		
Dielectric Strength (static)	Between contact	V	3000/3500/3800/4000/4500		
	Contact/shield to coil	V	4500		
	Contacts to shield	V	4500		
Insulation Resistance		Ω	10^{11}		
Operate Time		ms	2.0		1.5
Release Time		ms	2.0		1.5
Vibration(0~2000Hz)		G	20		
Shock(11ms, 1/2 sine)		G	50		
Operating Temp		°C	-20~+70		
Storage Temp		°C	-35~+105		
Life Expectancy		Ops	5×10^7 (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 Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HGSR□-1A□	5	4	0.5	6.5	120
HGSR□-2A□					60
HGSR□-1A□	12	9	1	16	600
HGSR□-2A□					200

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Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HGSR□-1A□	24	18	2	29	2000
HGSR□-2A□					1200
HGSR□-□C□	5	4	0.5	7	125
	12	9	1	16	685
	24	18	2	29	2650

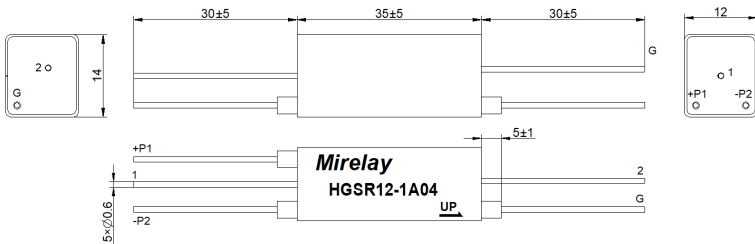
4 Example of order marking

HGSR □ - □ □ (XXX)
① ② ③ ④ ⑤

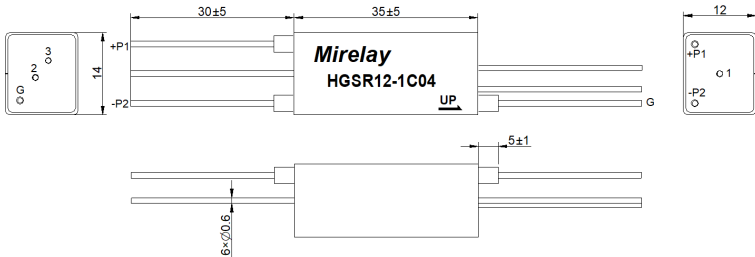
- ① Product model: HGSR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A、2A: 2 Form A、1C: 1 From C、2C: 2 Form C
- ④ Breakdown voltage: 01: 3000VDC、02: 3500VDC、03: 3800VDC、04: 4000VDC、05: 4500VDC
- ⑤ Special code: Customer special requirement

5 Outline drawing

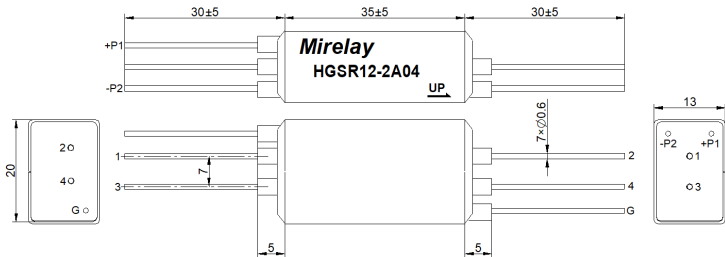
1) HGSR□-1A□



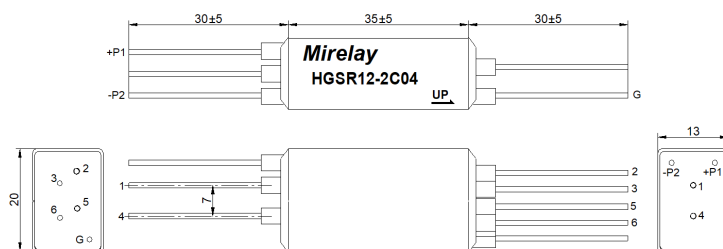
2) HGSR□-1C□



3) HGSR□-2A□

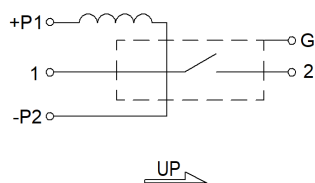


2) HGSR□-2C□

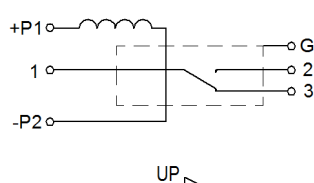


6 Wiring diagram

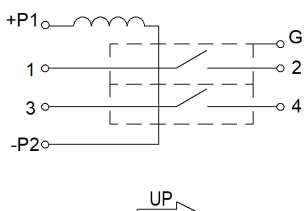
1) HGSR□-1A□



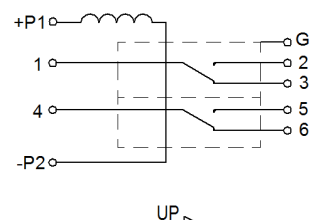
2) HGSR□-1C□



3) HGSR□-2A□



4) HGSR□-2C□



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.
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- ※ 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.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

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HVR WET Series**High voltage Mercury Reed Relay****1 Feature**

- ◆ High power mercury reed relay with dielectric strength up to 2000VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

Paramenter		Units	Value		
Relay Model		/	HVR1A□-HG	HVR2A□-HG	HVR1C□-HG
Contact Rating		W	50		
Max.Switching Voltage (Max DC/Peak AC)		V	1000		
Max.Switching Current (Max DC/Peak AC)		A	1.0		
Max.Carry Current		A	5.2		
Contact Resistance		mΩ	80		
Dielectric Strength (static)	Between contact	V	2000		
	Contact/shield to coil	V	2000		
	Contacts to shield	V	2000		
Insulation Resistance		Ω	10^{12}		
Operate Time		ms	2.0		
Release Time		ms	2.0		
Vibration(0~2000Hz)		G	20		
Shock(11ms, 1/2 sine)		G	50		
Operating Temp		°C	-20~+70		
Storage Temp		°C	-35~+105		
Life Expectancy		Ops	5×10^7 (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 Max.(VDC)	Coil Resistance ($\pm 10\%\Omega$ at 20°C)
HVR1A□-HG	5	4	0.5	7	100
	12	9	1	16	620
	24	18	2	29	1400
HVR2A□-HG	5	4	0.5	7	120

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Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HVR2A□-HG	12	9	1	16	250
	24	18	2	29	1600
HVR1C□-HG	5	4	0.5	7	120
	12	9	1	16	150
	24	18	2	29	1600

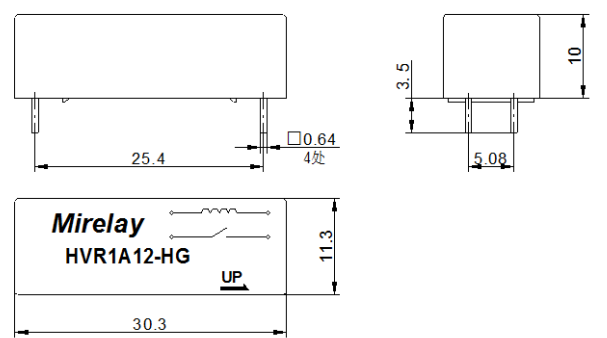
4 Example of order marking

HVR □ □ - HG -(XXX)
① ② ③ ④ ⑤

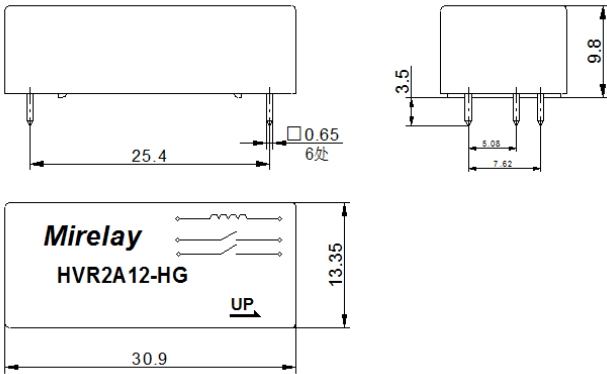
- ① Product model: HVR -HG
- ② Contact form: 1A: 1 Form A、2A: 2 Form A、1C: 1 Form C
- ③ Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ⑤ Types: HG: Mercury reed relay
- ⑤ Special code: Customer special requirement

5 Outline drawing

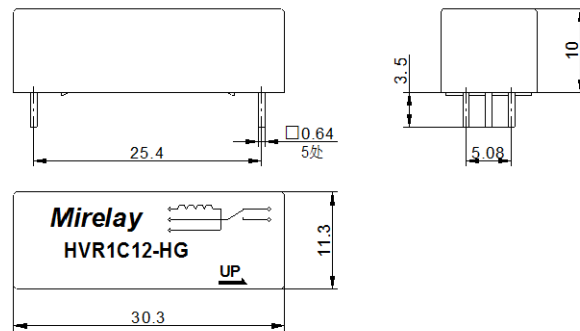
1) HVR1A□-HG



2) HVR2A□-HG

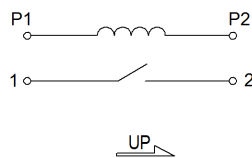


3) HVR1C□-HG

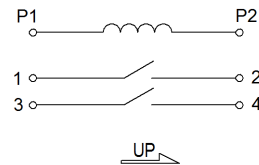


6 Wiring diagram

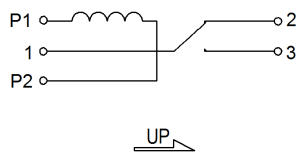
1) HVR1A□-HG



2) HVR2A□-HG



3) HVR1C□-HG



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.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

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MH Series**High voltage Mercury Reed Relay****1 Feature**

- ◆ High power mercury reed relay with dielectric strength up to 10KVDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ External magnetic and electrostatic shield
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

Paramenter		Units	Value	
Relay Model		/	MH□-1A8K	MH□-1A10K
Contact Rating		W	100	
Max.Switching Voltage (Max DC/Peak AC)		V	5000	
Max.Switching Current (Max DC/Peak AC)		A	5.0	
Max.Carry Current		A	10.0	
Contact Resistance		mΩ	100	
Dielectric Strength (static)	Between contact	V	8000	10000
	Contact/shield to coil	V	8000	10000
	Contacts to shield	V	8000	10000
Insulation Resistance		Ω	10^{12}	
Operate Time		ms	7.0	
Release Time		ms	5.0	
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 500VDC-100mA)	
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 ($\pm 10\%\Omega$ at 20℃)
MH□-1A□	5	4	0.8	6.5	50
	12	9	1.2	16	200
	24	18	2.4	29	800

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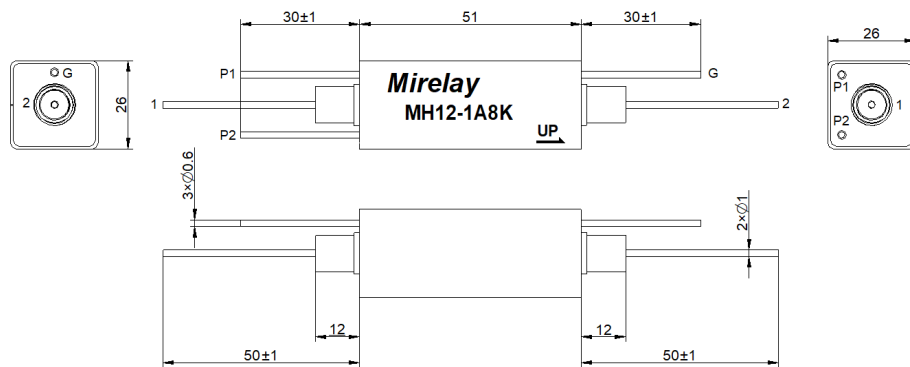
4 Example of order marking

MH - - (XXX)

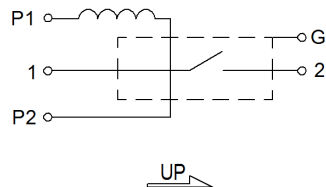
① ② ③ ④ ⑤

- ① Product model: MH
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A
- ④ Breakdown voltage: 8K: 8000V、10K: 10000V
- ⑤ Special code: Customer special requirement

5 Outline drawing



6 Wiring diagram



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.
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- ※ Hg wet contacts must be mounted within 30° of vertical plane.

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SIP WET Series**High voltage Mercury Reed Relay****1 Feature**

- ◆ High power mercury reed relay with dielectric strength up to 3500VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{13}\Omega$
- ◆ 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-HG-1A□□L	SIP-HG-1A□□	SIP-HG-1A□□H
Contact Rating		W	50		
Max.Switching Voltage (Max DC/Peak AC)		V	1000		1500
Max.Switching Current (Max DC/Peak AC)		A	2.0	1.0	2.0
Max.Carry Current	at 60℃	A	3.0	2.6	3.0
	at 30℃	A		5.2	
Contact Resistance		mΩ	100		
Dielectric Strength (static)	Between contact	V	2000		3500
	Contact/shield to coil	V	2000		3500
	Contacts to shield	V	2000		3500
Insulation Resistance		Ω	10 ¹⁰	10 ¹²	10 ¹³
Operate Time		ms	2.0		
Release Time		ms	1.5		
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 500VDC-100mA)		
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 ($\pm 10\%\Omega$ at 20℃)
SIP-HG-1A□	5	4	0.5	6.5	150
	12	9	1	16	500
	24	18	2	29	1440

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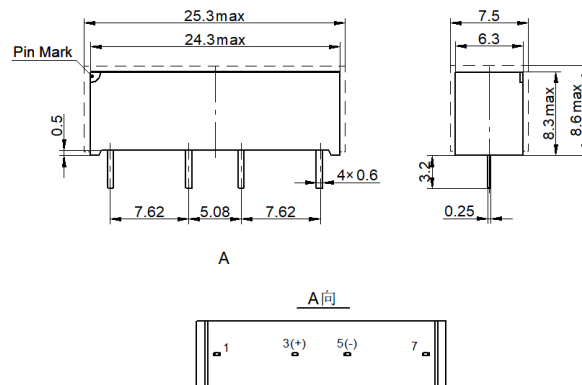
4 Example of order marking

SIP-HG - - (XXX)

① ② ③ ④ ⑤ ⑥

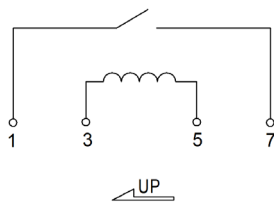
- ① Product model: SIP-HG
- ② Contact form: 1A: 1 Form A
- ③ Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ⑥ Features: Blank: Standard、D: With Diode、S: With magnetic shield、DS: With Diode and magnetic shield
- ⑦ Switch type: Blank: High current、L: Standard、H: High voltage
- ⑥ Special code: Customer special requirement

5 Outline drawing

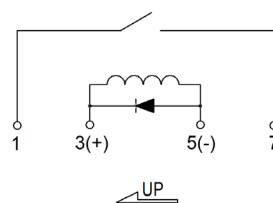


6 Wiring diagram

1)



2)



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