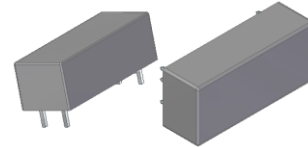


HVR WET Serie

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

Parameter	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	3.0		
Release Time	ms	3.0		
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

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
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

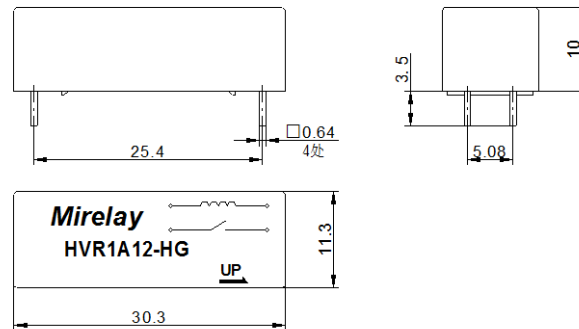
4 Example of order marking

HVR □ □ - **HG** - (XXX)
 ① ② ③ ④ ⑤

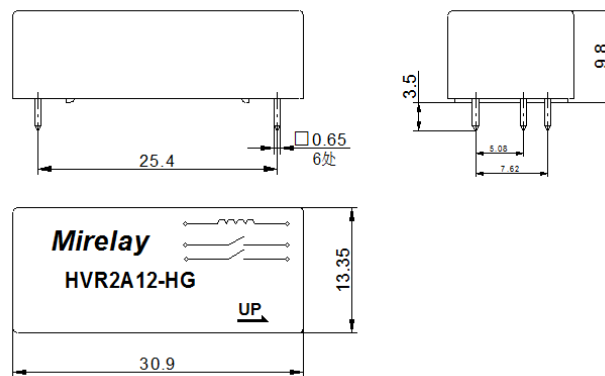
- ① Product model: HVR
- ② Contact form: 1A: 1 Form A、2A: 2 Form A、1C: 1 Form C
- ③ Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ④ Types: HG: Mercury reed relay
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) HVR1A□-HG



2) HVR2A□-HG



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

邮政编码：200063

POSTAL CODE:200063

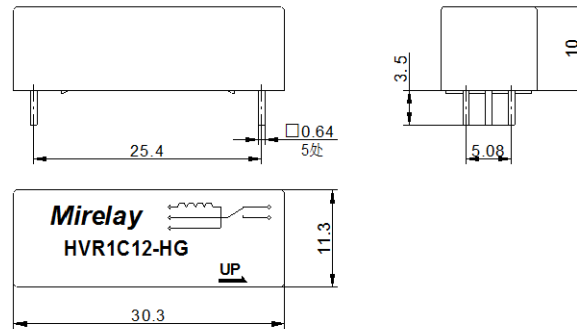
SHR RELAY

<https://www.reed-relay.com>

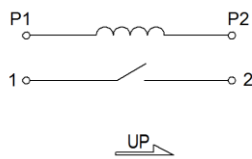
sales@reed-relay.com

+86 13761571029

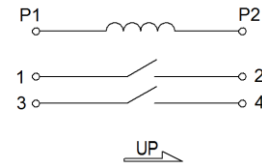
3) HVR1C□-HG


6 Wiring diagram

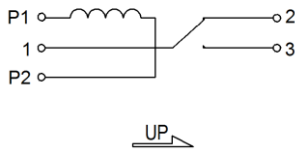
1) HVR1A□-HG



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°C 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 Mirelay 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 Shanghai MiRelay Electronics Co.,Ltd. for more technical support.

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