

## ORDERING INFORMATION

|                            |                                                    |  |     |     |   |       |
|----------------------------|----------------------------------------------------|--|-----|-----|---|-------|
|                            | HFD23 /                                            |  | 012 | -1Z | S | (XXX) |
| Type                       |                                                    |  |     |     |   |       |
| Coil voltage               | 1.5, 2.4, 3, 4.5, 5, 6, 9, 12, 24VDC               |  |     |     |   |       |
| Contact arrangement        | 1H: 1 Form A    1Z: 1 Form C                       |  |     |     |   |       |
| Coil power                 | S: Sensitive type    P: Standard type              |  |     |     |   |       |
| Special code <sup>2)</sup> | XXX: Customer special requirement    Nil: Standard |  |     |     |   |       |

Notes: 1) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.

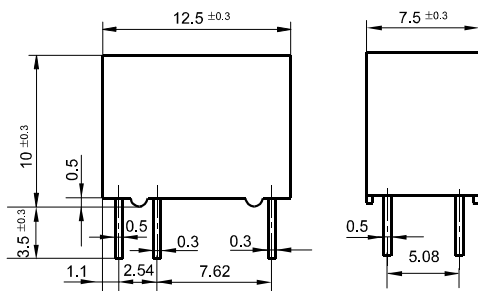
2) The customer special requirement express as special code after evaluating by Hongfa.

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

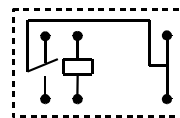
Unit: mm

### Outline Dimensions

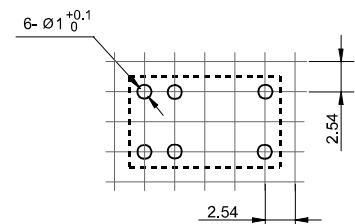
#### HFD23/1Z type



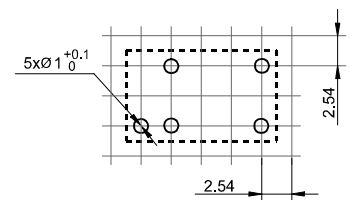
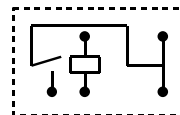
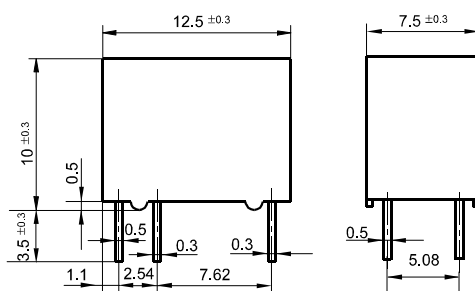
### Wiring Diagram (Bottom view)



### PCB Layout (Bottom view)



#### HFD23/1H type



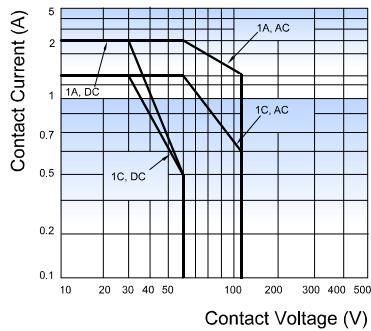
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $> 1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $> 5\text{mm}$ , tolerance should be  $\pm 0.4\text{mm}$ .

2) The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$ .

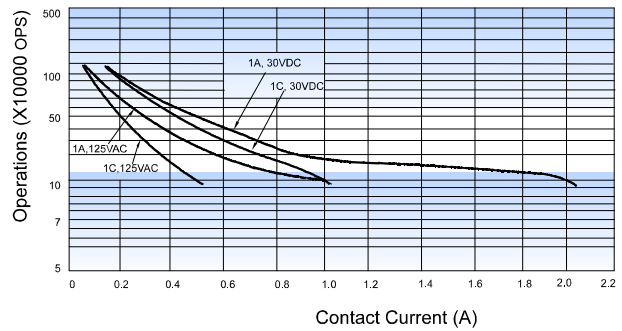
3) The width of the gridding is 2.54mm.

## CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



**Test conditions:**

Resistive load, Room temp., 1s on 9s off.

**Notice**

- 1) To avoid using relays under strong magnetic field which will change the parameters of relays such as pick-up voltage and drop-out voltage.
- 2) The relay may be damaged because of falling or when shocking conditions exceed the requirement.
- 3) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
- 4) Regarding the plastic sealed relay, we should leave it cooling naturally until below 40°C after welding, then clean it and deal with coating, remarkably the temperature of solvents should also be controlled below 40°C. Please avoid cleaning the relay by ultrasonic, avoid using the solvents like gasoline, Freon, and so on, which would affect the configuration of relay or influence the environment.
- 5) Energizing coil with rated voltage is basic for normal operation of a relay, please make sure the energized voltage to relay coil have reached the rated voltage. Regarding latching relay, in order to maintain the "set" or "reset" status, impulse width of the rated voltage applied to coil should be more than 5 times of "set" or "reset" time.
- 6) About preferable condition of operation, storage and transportation, please refer to "Explanation to terminology and guidelines of relay".

**Disclaimer**

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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