HFD23

SUBMINIATURE SIGNAL RELAY





File No.:CQC09002035070



Features

- Max.2A switching capability
- High sensitive: 150mW
- 1 Form C configuration
- Plastic sealed type available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (12.5 x 7.5 x 10.0) mm

CONTACT DATA	
Contact arrangement	1C
Contact resistance	100mΩ (at 0.1A 6VDC)
Contact material	AgNi +Au plated
Contact rating (Res. load)	0.5A 125VAC / 1A 30VDC
Max. switching voltage	125VAC / 60VDC
Max. switching current	2A
Max. switching power	62.5VA / 30W
Min. permissible load	1mA 5V
Mechanical endurance	1 x 10 ⁷ OPS (300 OPS/min)
Electrical endurance	1 x 10 ⁵ ops (30 ops/min)

CHAR	ACTERISTICS		
Insulation	resistance	1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts	1000VAC 1min	
strength	Between open contacts	400VAC 1min	
Operate tii	me (at nomi. volt.)	5ms max.	
Release ti	me (at nomi. volt.)	5ms max.	
Bounce tin	ne (at nomi.volt.)	Approx. 5ms	
Temperatu	ure rise (at nomi.volt.)	65K max.	
Shock resistance		98m/s²	
Vibration r	esistance	10Hz to 55Hz 3.3mm DA	
Humidity		98% RH, 40°C	
Ambient temperature		-30°C to 70°C	
Unit weight		Approx. 2.2g	
Termination		PCB (DIP)	
Constructi	on	Plastic sealed	
Notes: The	data shown above are initial v	values.	

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COIL		
Coil power	Sensitive:150mW;	Standard: 200mW

COIL DATA at 23°C

Standard type (200mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
1.5	1.20	0.15	2.25	11.3 x (1±10%)
3	2.40	0.30	4.5	45 x (1±10%)
5	4.00	0.50	7.5	125 x (1±10%)
6	4.80	0.60	9.0	180 x (1±10%)
9	7.20	0.90	13.5	405 x (1±10%)
12	9.60	1.20	18.0	720 x (1±10%)
24	19.20	2.40	36.0	2880 x (1±15%)

Sensitive type (150mW)

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Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω	
1.5	1.20	0.15	2.25	15 x (1±10%)	
3	2.40	0.30	4.5	60 x (1±10%)	
5	4.00	0.50	7.5	167 x (1±10%)	
6	4.80	0.60	9.0	240 x (1±10%)	
9	7.20	0.90	13.5	540 x (1±10%)	
12	9.60	1.20	18.0	960 x (1±10%)	
24	19.20	2.40	36.0	3840 x (1±15%)	

SAFETY APPROVAL RATINGS

	1.0A 30VDC
UL/CUL	0.3A 60VDC
	0.5A 125VAC

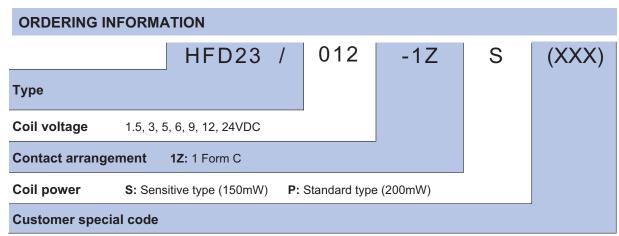
Notes: Only some typical ratings are listed above. If more details are required, please contact us.



HONGFA RELAY

ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

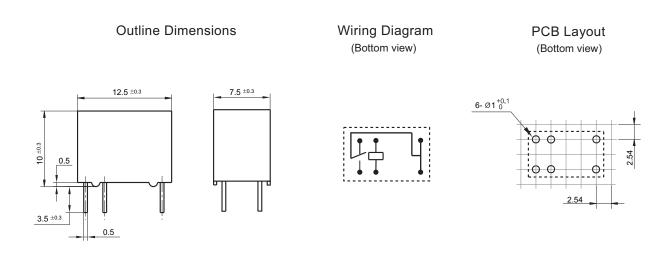
2010 Rev. 1.00



Notes: 1) If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

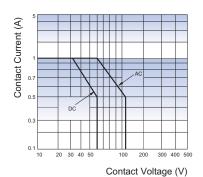


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

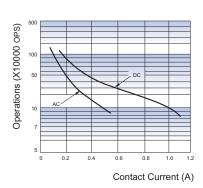
- 2) The tolerance without indicating for PCB layout is always ±0.1mm.
- 3) The width of the gridding is 2.54 mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



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) Regarding the plastic sealed relay, we should leave it cooling naturally untill 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.
- 4) About preferable condition of operation, storage and transportation, please refer to "Explanation to terminology and guidetines of relay".

Disclaimer

This datasheet is for the customers' reference. All the specifications are 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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