

# HFS2 (JGW-2F)

# MOS RELAY



### Features

- Photo isolation
- 1500V Dielectric strength
- Insulation resistance:1000MΩ
- Printed circuit board mount
- RoHS compliant

### INPUT (TA = 25°C)

Control current range	5mA to 20mA
Max. reverse protection voltage	3V
Must release current	0.4mA
Must operate current	5mA

### DESCRIPTION

HFS2 solid state relay comes in a super-miniature package measuring (L)10.3mm x (W)6.4mm x (H)3.5mm. Low on resistance(Max.50Ω) and low-level off state leakage current.

### OUTPUT (TA = 25°C)

Load current range	150mA	
Max. surge current (10ms)	0.3Apk	
Max. turn-on time	0.5ms	
Max. turn-off time	0.3ms	
Max. leakage current	1μA	
On resistance	A mode <sup>(1)</sup>	50Ω
	B mode <sup>(1)</sup>	25Ω
	C mode <sup>(1)</sup>	12.5Ω

### APPLICATIONS

- Telecommunications
- Automatic meter reading
- High speed inspection machines
- Factory automation equipment

### GENERAL (TA = 25°C)

Dielectric strength (input to output)	1500VAC, 50Hz/60Hz, 1min
Insulation resistance	1000MΩ (at 500VDC)
Max. capacitance (input to output)	1.5pF
Vibration resistance	10 to 55 Hz 3mm DA
Shock resistance	500g
Operating temperature	-20°C to 80°C
Storage temperature	-40°C to 100°C
Ambient humidity	45% to 85% RH
Unit weight	Approx. 0.6g

Notes: (1) To see terminal wiring diagram.



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2007 Rev. 1.00

## ORDERING INFORMATION

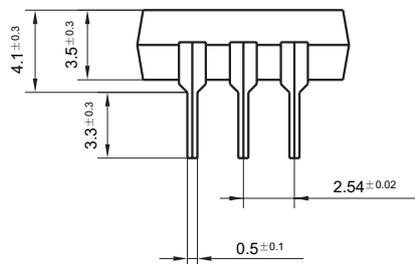
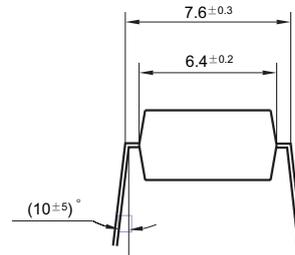
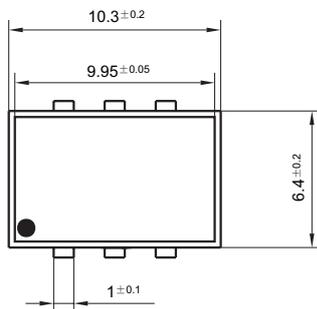
Type	HFS2 / A 2 1 2 D N (XXX)
Output mode	A: Normal open (NO)
Pins	2: 6 Pins
Level	1: Economy
Load voltage	0: 60V 1: 100V 2: 200V 3: 350V 4: 400V
Mount mode	D: DIP S: SOP
Isolation voltage	N:1500V
Customer special code	Only for special requirements, e.g. (555) stands for RoHS compliant

Notes: HFS2 is an environmental friendly product, please mark special code (555) when order.

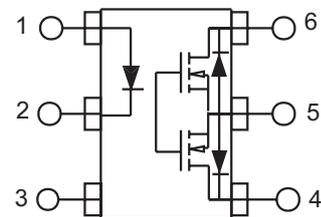
## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

### Outline Dimensions

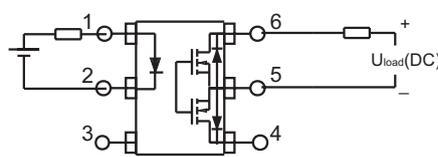


### Schematics

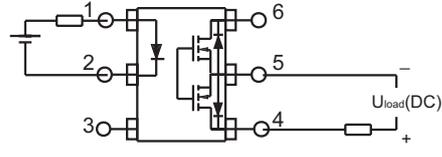


## WIRING DIAGRAM

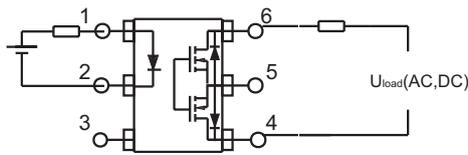
### Wiring Diagram



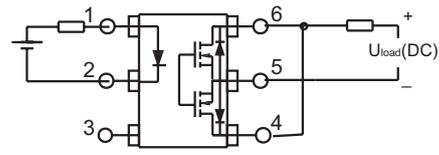
B Mode Wiring Diagram



B Mode Wiring Diagram



A Mode Wiring Diagram

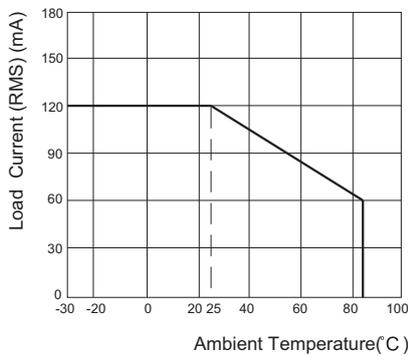


C Mode Wiring Diagram

## CHARACTERISTIC CURVES

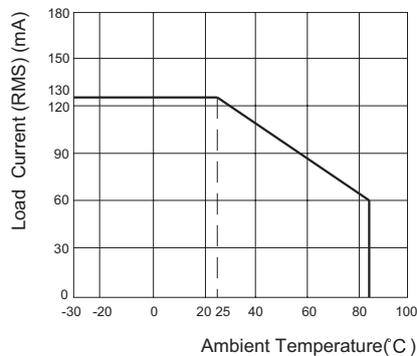
### Wiring diagram A mode:

Max. Load Current vs. Ambient Temperature



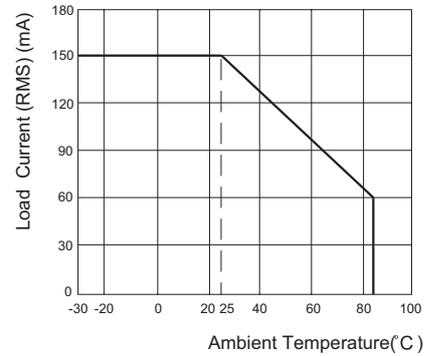
### Wiring diagram B mode:

Max. Load Current vs. Ambient Temperature



### Wiring diagram C mode:

Max. Load Current vs. Ambient Temperature



### 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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