HFS32D(DC 100mA Type)

SOLID STATE RELAY



Features

- Small dimensions for high packing density PCB assembly or socket mount
- Photo isolation with 2500V dielectric strength
- Full compatibility to the electromechanical standard relay HF41F
- TTL and CMOS compatible
- For interface application between PLC and external loads
- Environmental friendly product (RoHS compliant)

DESCRIPTION

This SPST-NO SSR with small dimensions provides DC output switching for PCB assembly or socket mount occasion, especially for some high density mounting applications. The HFS32's DC input is compatible with 5V, 12V, 24V and 60V logic systems. The relays provide 2500Vrms opto-isolation between input and output.

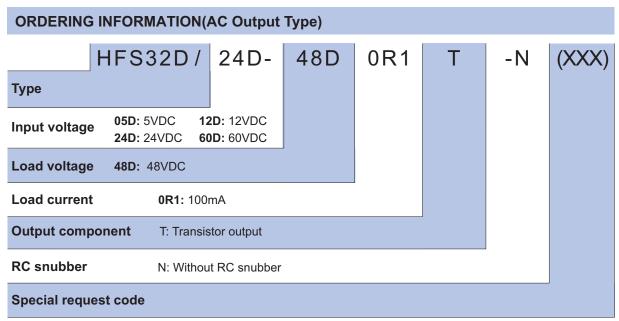
The relays are full compatibility to the electromechanical standard relay HF41F, so is very convenient for using in industrial control.

INPUT PARAMETERS (Ta = 25°C)						
Control voltage range		05D	4 VDC to 6VDC			
		12D	9.6 VDC to 14.4VDC			
		24D	19.2VDC to 28.8VDC			
		60D	48 VDC to 72VDC			
Must turn on voltage		05D	4VDC			
		12D	9.6VDC			
		24D	19.2VDC			
		60D	48VDC			
Must turn off voltage	Zero cross turn-on	05D	1VDC			
		12D	3VDC			
		24D	10VDC			
		60D	20VDC			
Max. Input current		05D	15mA			
		12D	15mA			
		24D	10mA			
		60D	5mA			

OUTPUT (Ta = 25°C)				
Operating voltage range	48D	0 to 57.6VDC		
Max. transient overvoltage	48D	58VDC		
Load current 1)		100mA		
Max. on-state voltage drop		1.2VDC		
Max. turn-on time		50µs		
Max. turn-off time		300µs		
Name of protection		Polarity protection		

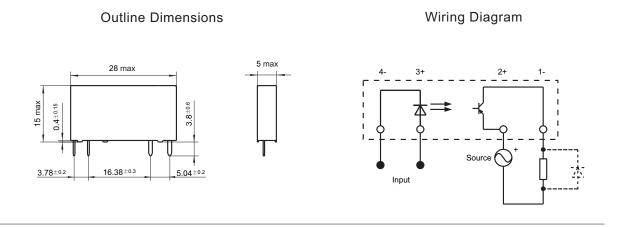
GENERAL (Ta = 25°C) Dielectric strength (input-output) 2500VAC 1min Insulation resistance 1000MΩ (at 500VDC) Vibration resistance 10 Hz to 55Hz 1.5mm DA -30°C to 80°C Ambient operating temperature storage -30°C to 100°C Ambient humidity 45% to 85% RH Approx. 4g Unit weight Acceleration 1000m/s², continuous surge 11ms Shock resistance Recommended soldering temperature 260 °C ,10s or 350°C,5s

Notes: 1) Refer to fig.1 Max.Load current vs.Ambient Temperature for load current.



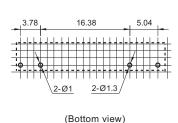
Notes: 1) The HFS32D is full compatible to the electromechanical standard relay HF41F by pins.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm

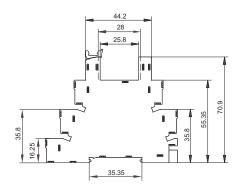


Mounting Holes Layout

PCB Layout



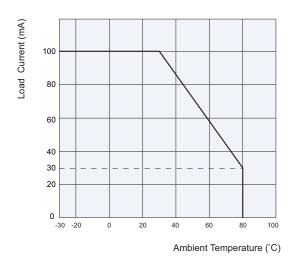
Socket Layout



CHARACTERISTIC CURVES

Max. Load Current vs. Ambient Temp.

HFS32D/□□D-□□D0R1T-N type



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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