

JGX-40F

SOLID STATE RELAY



Features

- * 2500Vrms dielectric strength
- * LED status indicator
- * 80 Volt blocking voltage
- * Photo isolation
- * Bipolar transistor output
- * Printed circuit board mount

INPUT

Control voltage range	05D	3.5 to 6VDC
	12D	8.4 to 14.4VDC
	24D	16.8 to 28.8VDC
Must operate voltage	05D	3.5VDC
	12D	8.4VDC
	24D	16.8VDC
Must release voltage	05D	0.3VDC
	12D	0.9VDC
	24D	1.8VDC
Max. reverse protection voltage	05D	-6VDC
	12D	-14.4VDC
	24D	-28.8VDC
Typical input current		12mAdc

OUTPUT

Load voltage range	3 to 52.8VDC
Load current rang	0.01 to 2ADC
Max. surge current(10ms)	8ADC
Max leakage current	0.1mAdc
Max on-state voltage drop	1.5VDC
Max turn-on time	1ms
Max turn-off time	1ms
Transient overvoltage	80Vpk

GENERAL

Dielectric strength	2500VAC min., 50/60Hz 1min.	
Insulation resistance (input to output)	1000MΩ, min. (at 500VDC)	
Max. capacitance (input to output)	5pF	
Vibration durability	5g (10 to 55Hz)	
Shock durability	1000m/s ²	
Ambient temperature	Operating	-30°C to +80°C
	Storage	-30°C to +100°C
Ambient Humidity	45% to 85%	
Unit weight	18g	

DESCRIPTION

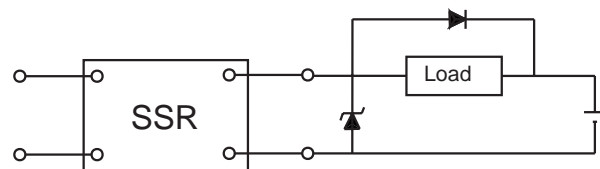
This SPST-NO printed circuit board mount SSR provides DC output switching in a high density package. The JGX-40F's DC input is compatible with 5, 12 and 24V logic systems. The relays include a LED indicator to provide input status information. The relays provide 2500Vrms opto-isolation, between input and output. Encapsulation, thermally conductive epoxy.

APPLICATIONS

- * I/O interface
- * Programmable controllers

PRECAUTIONS

1. Soldering must be completed within 10 seconds at 260°C or less or within 5 seconds at 350°C or less.
2. The SSR case serves to dissipate heat. Install the relays so that they are adequately ventilated. If poor ventilation is unavoidable, reduce the load current by half.
3. When using the JGX-40F series for a DC load with a peak voltage of more than 80V, connect the load terminals of the relay to an inrush absorber (varistor).
4. Before connecting a load that generates a high surge current, such as a lamp load to the SSR, make sure that the SSR can withstand the surge current of the load.
5. The product data sheet shows the non-repetitive peak value of the surge current that flows through the SSR. Normally, use 1/2 the non-repetitive peak surge current as the standard value. If a surge current exceeding that value is expected, connect a quick-blowing fuse to protect the SSR.



HONGFA RELAY
ISO9001/QS9000/ISO14000 CERTIFIED

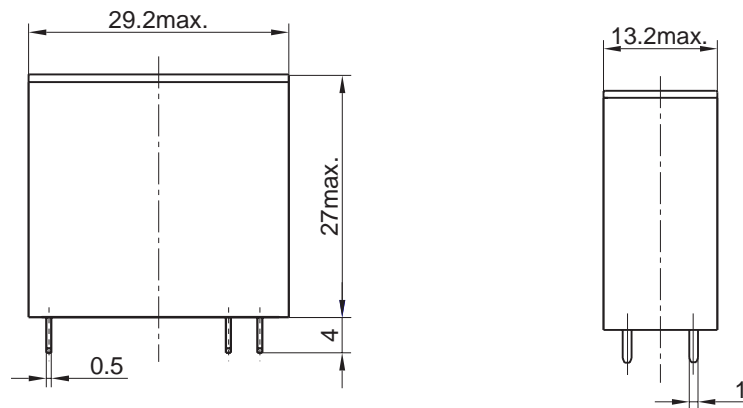
VERSION: EN01-20020620

ORDERING INFORMATION

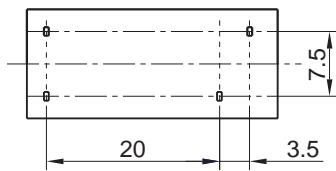
Type	JGX-40F /	05	D	22	02
Input voltage	05: 3.5 to 6VDC 12: 8.4 to 14.4VDC 24: 16.8 to 28.8VDC				
Input Form	D: DC				
Load power supply	05 : 50VDC 11: 110VDC 22: 220VDC				
Load current	01 : 1Amp 02 : 2Amp				

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

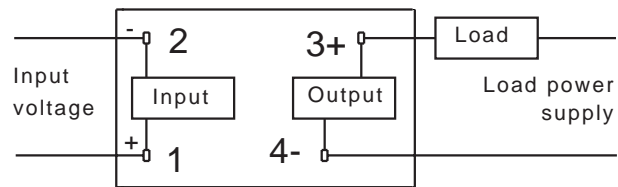
Outline Dimensions



PCB layout

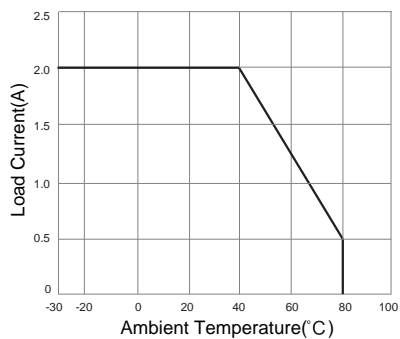


Wiring Diagram



CHARACTERISTICS CURVE

MAXIMUM LOAD CURRENT VS. AMBIENT TEMPERATURE



MAXIMUM PERMISSIBLE NON-REPETITIVE PEAK SURGE CURRENT VS. ENERGIZING TIME

