

# JGX-1505FB

# SOLID STATE RELAY



Pending



CH0075016-2002



## Features

- 4000V dielectric strength
- Photo isolation
- Built-in snubber
- Zero cross or random turn-on
- Panel mount

## INPUT

Type	D38Z10 D24Z10	D38Z15 D24Z15	D38Z20 D24Z20	D38Z25 D24Z25	D38Z40 D24Z40
Control voltage range	3 to 32VDC				
Must operate voltage	3VDC max				
Must release voltage	1.0VDC min				
Max. input current	15mA(@32VDC)				
Max. reverse protection voltage	-32VDC				

## OUTPUT

Type	D38Z10 D24Z10	D38Z15 D24Z15	D38Z20 D24Z20	D38Z25 D24Z25	D38Z40 D24Z40
Load voltage range(@47-63HZ)	D24	48 to 240Vrms			
	D38	48 to 380Vrms			
Transient overvoltage	D24	600Vpk			
	D38	800Vpk			
Load current range(A)	0.1 to 10	0.1 to 15	0.1 to 20	0.1 to 25	0.1 to 40
Max. surge current(10ms)	100Apk	150Apk	200Apk	250Apk	400Apk
Max. leakage current	3mA	5mA	5mA	10mA	10mA
Max. on-state voltage drop	1.5Vrms				
Max. turn-on time(@50Hz)	10ms				
Max. turn-off time(@50Hz)	10ms				
Min. off-state(dv/dt)	200V/μs				
Min. power factor	0.5				

## GENERAL

Type	D38Z10 D24Z10	D38Z15 D24Z15	D38Z20 D24Z20	D38Z25 D24Z25	D38Z40 D24Z40
Dielectric strength (input to output)	4000Vrms min (@50/60Hz, 1min.)				
Insulation resistance	1000MΩ min (@50/60Hz, 1min.)				
Max. capacitance (input to output)	8pF				
Ambient temperature	Operating	-30°C to +80°C			
	Storage	-30°C to +100°C			
Ambient Humidity	45 to 85%				
Unit weight	Max. 100g				

Notes: All parameters at 25C.  
Dielectric strength is measured between input and output

## DESCRIPTION

The JGX-1505F offer 3-32VDC input control,with outputs rated at 10,15,20,25 or 40Amps. All models include an internal snubber. The relays provide 4000Vrms opto-isolation, between input and output. Encapsulation,thermally conductive epoxy.

## INSTALLATION

1. When mounting the relays side by side, provide a space equivalent to the width of a single SSR between two adjacent SSRs. Otherwise, reduce the load current flow to 1/2 to 1/3 of the rated current.
2. When mounting relays on heat sink surface, first apply a heat conductive grease to the metal back surface of the SSR. Press the SSR firmly onto the heat sink to ensure a good seal. Screw the SSR down to the heat sink.
3. Next, wire the screw terminals and securely tighten the screws.

## PRECAUTIONS

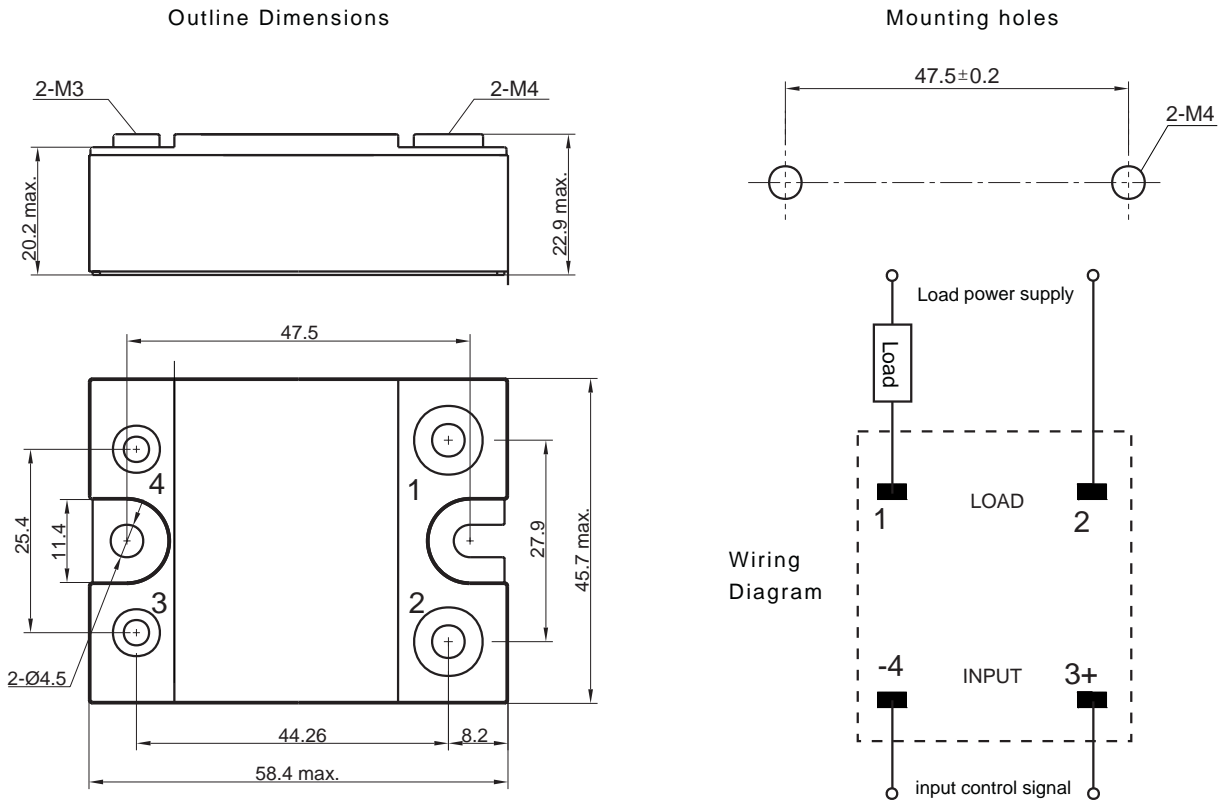
1. Before connecting a load that generates a high surge current, such as a lamp load to the SSR, make sure that the SSR can withstand the surge current of the load.
2. The product data sheet shows the non-repetitive peak value of the surge current that flows through the SSR. Normally, use 1/2 of the 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.



## ORDERING INFORMATION

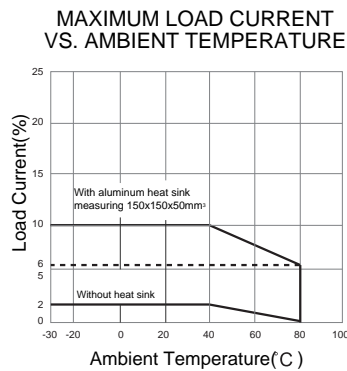
Type	JGX-1505FB /	D	24	Z	25
Input Voltage	D: 3VDC to 32VDC				
Load Voltage	24: 48 to 240VAC 38: 48 to 380VAC				
Zero Cross Function	Z: Zero cross turn-on P: Non-zero cross turn-on				
Load Current	10: 10Amp 15: 15Amp 20: 20Amp 25: 25Amp 40: 40Amp				

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES



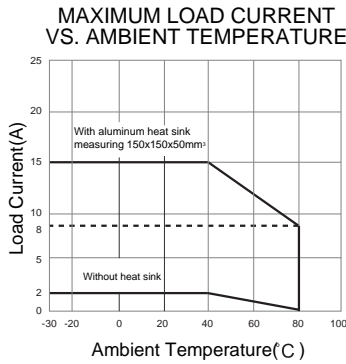
## CHARACTERISTICS CURVE

JGX-1505FB/D24Z10&D38Z10

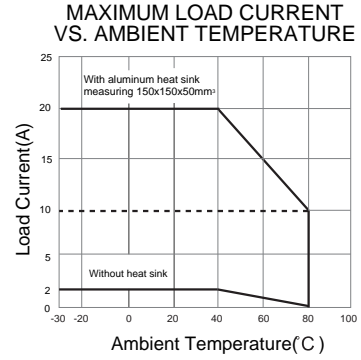


# CHARACTERISTICS CURVE

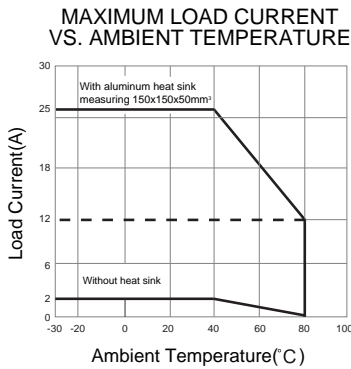
JGX-1505FB/D24Z15&D38Z15



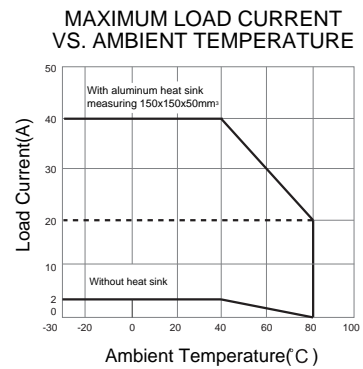
JGX-1505FB/D24Z20&D38Z20



JGX-1505FB/D24Z25&D38Z25



JGX-1505FB/D24Z40&D38Z40



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

