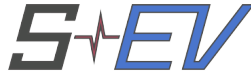


# AC Solid State Relay



SCHWARTZ-ELECTRONIC VERTRIEB GMBH



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# JCP SERIES



## Features

- Small size, Resin casted molding type
- Max. load current at 1.7 A
- Available for PCB high-density packaging
- Dielectric strength between input and output at 2,500 V/1 min.
- UL standard approved

## Type Information

**J C 2 0 2 P C 2**

Standard load voltage

2 : 100V, 200V

Max. load current

0.2 : 1.7 A

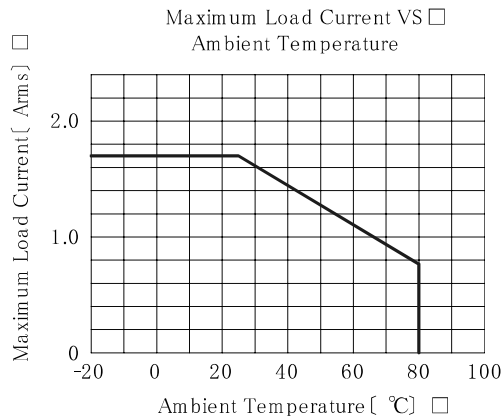
Zero-cross-circuit

PC : Built-in  
PN : Not Built-in

Special function

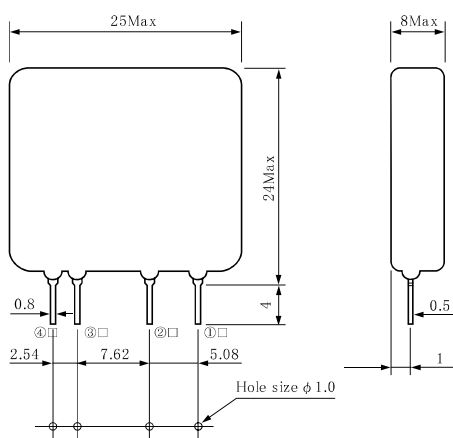
None : No input resistance and snubber circuit  
1 : No snubber circuit  
2 : With input resistance and snubber circuit

## Characteristics



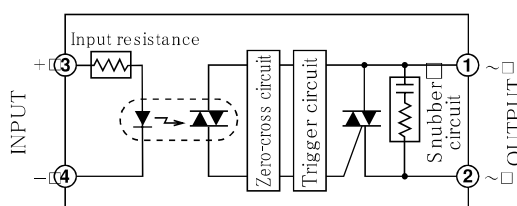
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 ※ Please contact JEL SYSTEM for further information.

Dimensions ( mm )



Dimensions For PCB Design

Equivalent Circuit



Model	Zero-cross	Input resistance	Snubber circuit
JC202PC	○	×	×
JC202PC1	○	○	×
JC202PC2	○	○	○
JC202PN	×	×	×
JC202PN1	×	○	×
JC202PN2	×	○	○

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■ Ratings

( Ta = 25 °C)

	Item	Symbols	J C 2 0 2 P C 2	J C 2 0 2 P C 1	J C 2 0 2 P C	J C 2 0 2 P N 2	J C 2 0 2 P N 1	J C 2 0 2 P N	Units
Output	Rated Load Voltage	—	120、240						V <sub>ACrms</sub>
	Maximum Load Current	I <sub>OMAX</sub>	1.7						A <sub>ACrms</sub>
	Maximum Load Voltage	V <sub>OMAX</sub>	280						V <sub>ACrms</sub>
	Peak Repetitive Off State Voltage	V <sub>DRM</sub>	600						V
	Peak 1 Cycle Surge Current	I <sub>SURGE</sub>	30 ( 60Hz)						A
	Frequency	f	50、60						Hz
Input	Maximum Input Voltage (Current)	V <sub>IMAX</sub>	8		( 50mA)	8		( 50mA)	V <sub>DC</sub>
	Input Impedance	R <sub>IN</sub>	180 ± 20 %		—	180 ± 20 %		—	Ω
General	Dielectric Strength	V <sub>ISO</sub>	2,500 /1 min.( Between input and output)( Rh40 ~60 %)						V <sub>ACrms</sub>
	Isolation Resistance	R <sub>ISO</sub>	10 <sup>10</sup> and above DC500V( Between input and output)( Rh40 ~60 %)						Ω
	Operating Temperature Range	T <sub>OPR</sub>	- 20 ~+ 80						°C
	Storage Temperature Range	T <sub>STG</sub>	- 30 ~+ 100						°C

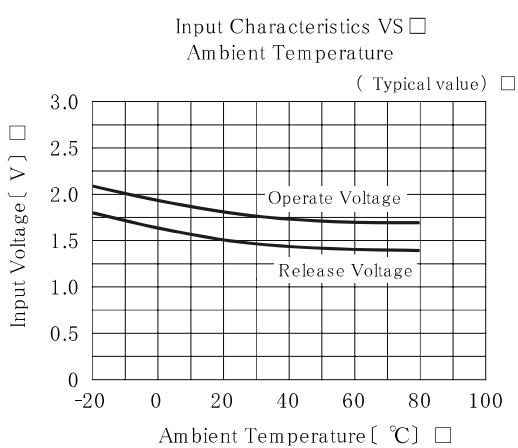
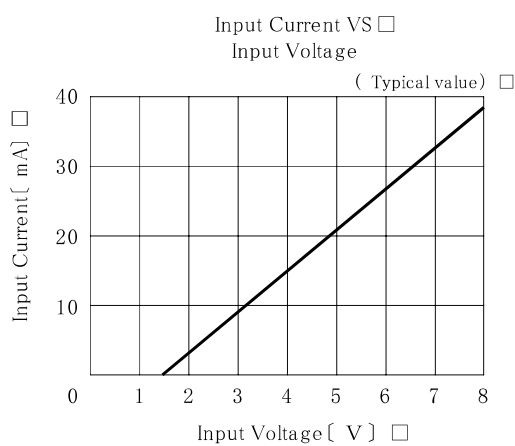
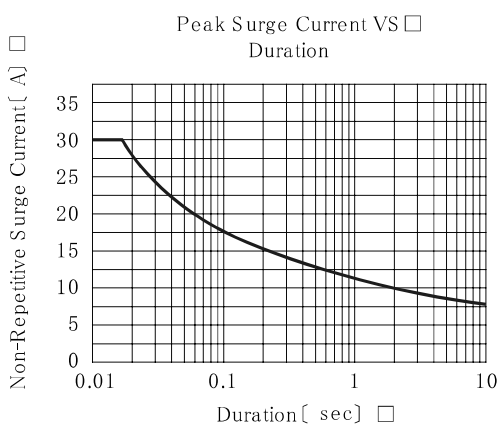
■ Electrical Characteristics

( Ta = 25 °C)

	Item	Symbols	J C 2 0 2 P C 2	J C 2 0 2 P C 1	J C 2 0 2 P C	J C 2 0 2 P N 2	J C 2 0 2 P N 1	J C 2 0 2 P N	Units
Output	Load Voltage Range	V <sub>O</sub>	35 ~ 280						V <sub>ACrms</sub>
	Off State Leakage Current	I <sub>LEK</sub>	2.0 and below ( V <sub>O</sub> =200V)	0.1 and below ( V <sub>O</sub> =200V)	2.0 and below ( V <sub>O</sub> =200V)	0.1 and below ( V <sub>O</sub> =200V)	m A <sub>ACrms</sub>		
	On State Voltage Drop	V <sub>SAT</sub>	1.5 and below						V <sub>ACrms</sub>
	Minimum Load Current	I <sub>OMIN</sub>	10						mA
Input	Input Voltage (Current) Range	V <sub>I</sub>	4 ~8		( 10~50mA)	4 ~8		( 10~50mA)	V <sub>DC</sub>
	Operate Voltage (Current)	V <sub>P</sub>	4 and below		( 10mA and below)	4 and below		( 10mA and below)	V <sub>DC</sub>
	Release Voltage (Current)	V <sub>D</sub>	1 and above		( 1mA and above)	1 and above		( 1mA and above)	V <sub>DC</sub>
General	Operate Time	T <sub>ON</sub>	1/2 Cycle + 1ms and below			1ms and below			/
	Release Time	T <sub>OFF</sub>	1/2 Cycle + 1ms and below						/
	Capacitance	C <sub>IO</sub>	15 and below						PF
	Zero Cross Turn On		Built In			Not Built In			/
	Approved Standards		UL						/

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