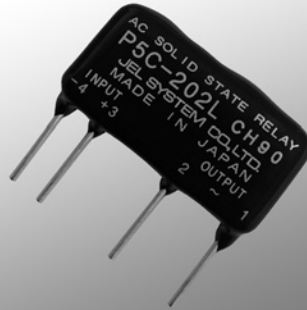


AC Solid State Relay



P5/P6 SERIES

Features

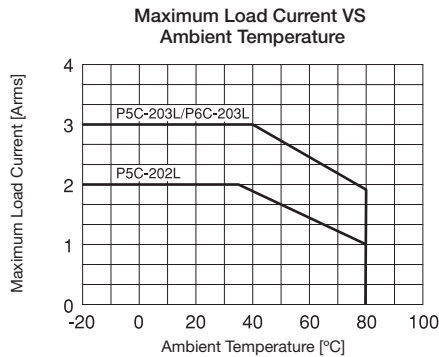
- Resin casted molding type
- Available for PCB high-density packaging
- Max. load current at 2A, 3A
- Dielectric strength between input and output at 2,500V/1 min.

Type Information

| P 5 C - 2 0 2 L | | | | |
|--|--------------------------------------|------------------------------|--------------------------|--|
| Basic model | Zero-cross-circuit | Standard load voltage | Max. load current | Input voltage range |
| P5 : With between input terminals 5.08mm | C : Built-in N : Not Built-in(*1) | 2 : 100V, 200V | 02 : 2A 03 : 3A | L : DC 4 ~ 8V M : DC 8 ~ 18V(*1) H : DC 18 ~ 28V(*1) |
| P6 : With between input terminals 7.62mm(*2) | | | | |

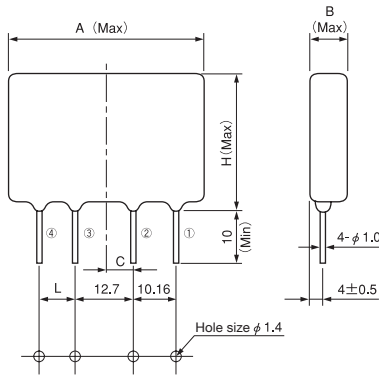
(*1) Manufactured to order
(*2) P6□202 type is not available

Characteristics



※ Description in the catalogue is subject to change without notice. Please read the specifications thoroughly before using.
 ※ Please contact JEL SYSTEM for further information.

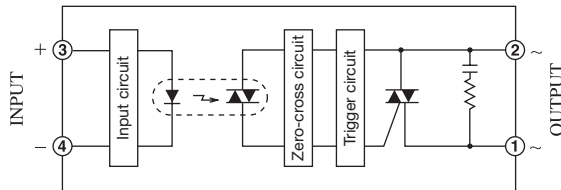
Dimensions (mm)



Dimensions For PCB Design

| Model | Size | A | B | C | H | L |
|----------|------|----|----|-----|----|------|
| P5C-202L | | 35 | 8 | 3.8 | 20 | 5.08 |
| P5C-203L | | 41 | 10 | 4.7 | 26 | 5.08 |
| P6C-203L | | 41 | 10 | 4.7 | 26 | 7.62 |

Equivalent Circuit



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■ Ratings

(Ta = 25 °C)

| | Item | Symbols | P5C-202L | P5C-203L/P6C-203L | Units |
|---------|-----------------------------------|--------------------|--|-------------------|--------------------|
| Output | Rated Load Voltage | — | 120, 240 | | V _{ACrms} |
| | Maximum Load Current | I _{OMAX} | 2 | 3 | A _{ACrms} |
| | Maximum Load Voltage | V _{OMAX} | 264 | | V _{ACrms} |
| | Peak Repetitive Off State Voltage | V _{DRM} | 600 | | V |
| | Peak 1 Cycle Surge Current | I _{SURGE} | 30 (50Hz) | 50 (50Hz) | A |
| | Frequency | f | 50, 60 | | Hz |
| Input | Maximum Input Voltage | V _{IMAX} | 8 | | V _{DC} |
| | Input Impedance | R _{IN} | 270 ± 20% | | Ω |
| General | Dielectric Strength | V _{ISO} | 2,500/1 min.(Between input and output) | | V _{ACrms} |
| | Isolation Resistance | R _{ISO} | 10 ⁹ and above DC500V(Between input and output) | | Ω |
| | Operating Temperature Range | T _{OPR} | - 20 ~ + 80 | | °C |
| | Storage Temperature Range | T _{STG} | - 30 ~ + 100 | | °C |

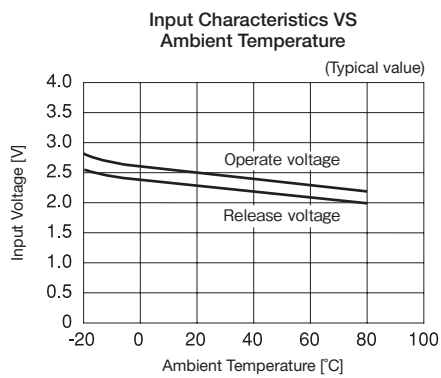
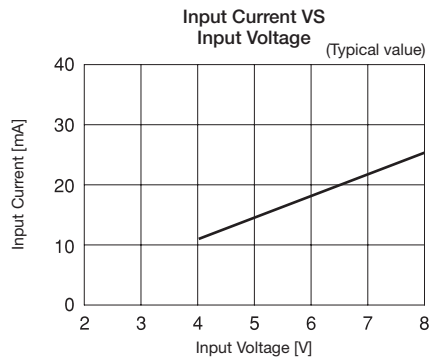
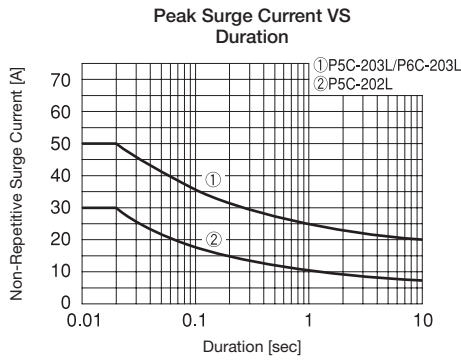
■ Electrical Characteristics

(Ta = 25 °C)

| | Item | Symbols | P5C-202L | P5C-203L/P6C-203L | Units |
|---------|---------------------------|-------------------|------------------------------------|-------------------|---------------------|
| Output | Load Voltage Range | V _o | 35 ~ 264 | | V _{ACrms} |
| | Off State Leakage Current | I _{LEK} | 5 and below(V _o = 200V) | | mA _{ACrms} |
| | On State Voltage Drop | V _{SAT} | 1.5 and below | | V _{ACrms} |
| | Minimum Load Current | I _{OMIN} | 20 | | mA |
| Input | Input Voltage Range | V _i | 4 ~ 8 | | V _{DC} |
| | Operate Voltage | V _P | 4 and below | | V _{DC} |
| | Release Voltage | V _D | 1 and above | | V _{DC} |
| General | Operate Time | T _{ON} | 1/2 Cycle + 1 ms and below | | / |
| | Release Time | T _{OFF} | 1/2 Cycle + 1 ms and below | | / |
| | Capacitance | C _{IO} | 15 and below | | PF |
| | Zero Cross Turn On | | Built In | | / |
| | Approved Standards | | — | | / |

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