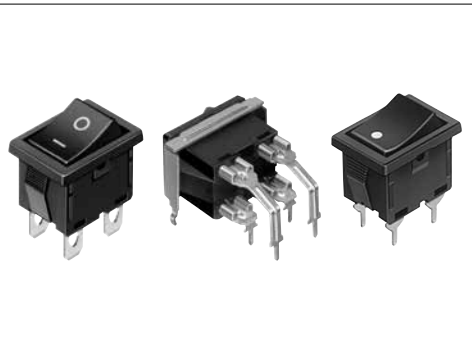


SDDJE 10A 250V AC Qualified Type

100A inrush current compatible, compact and large capacity snap-in type with easy mounting



Ratings and Safety Standards

| Items | Specifications |
|---|------------------------------|
| C-UL-US | 10AGP 250V AC |
| SEMKO | 6A / 96A 250V~, 10(6) / 250~ |
| VDE | 6A / 96A 250V~, 10(6) / 250~ |
| BS | 6A / 96A 250V~, 10(6) / 250~ |
| Ratings satisfying local electrical appliance and material safety law | 125V 10A ∇ |

Product Line

| Circuit arrangement | Travel (mm) | Operating force | Mounting method | Terminal configuration | Frame | Marking (Knob) | Minimum order unit (pcs.) | | Product No. | Drawing No. | | |
|---------------------|-------------|-----------------|-----------------|------------------------|-------------------|----------------|---------------------------|--------|-------------------|-------------|-------------------|-------|
| | | | | | | | Japan | Export | | | | |
| SPST | 3±2N | | | For Lead | Without | Without | 400 | 2,000 | SDDJE11600 | 1 | | |
| | | | | Right angle | With | | | | | | 250 | 1,250 |
| | | | | For Lead | Without | ● mark | 400 | 2,000 | SDDJE10300 | 1 | | |
| | | | | Right angle | With | | | | | | 250 | 1,250 |
| | | | | For Lead | Without | IO mark | 400 | 2,000 | SDDJE10700 | 1 | | |
| | | | | Right angle | With | | | | | | 250 | 1,250 |
| | | | | For Lead | Without | -O mark | 400 | 2,000 | SDDJE11200 | 1 | | |
| | | | | Right angle | With | | | | | | 250 | 1,250 |
| DPST | 3.4 | 6±3N | Snap-in | For Lead | Without | Without | 400 | 2,000 | SDDJE31600 | 3 | | |
| | | | | Right angle | With | | | | | | 250 | 1,250 |
| | | | | For Lead | Without | ● mark | 400 | 2,000 | SDDJE30100 | 3 | | |
| | | | | For PC board | | | | | | | SDDJE32700 | 6 |
| | | | | Right angle | With | | 250 | 1,250 | SDDJE30200 | 4 | | |
| | | | | Right angle | | | | | | | SDDJE32100 | 5 |
| | | | | For Lead | Without | IO mark | 400 | 2,000 | SDDJE30300 | 3 | | |
| | | | | For PC board | | | | | | | SDDJE33300 | 6 |
| | | | | Right angle | | | | | | | With | 250 |
| | | | | Right angle | SDDJE30400 | | 5 | | | | | |
| For Lead | Without | -O mark | 400 | 2,000 | SDDJE30700 | | 3 | | | | | |

Notes

1. The lead terminals are also used as tab terminals #187 (Use a positive lock connector type).
2. The lead terminal type can be mounted onto a board. (Manual soldering required)
3. Standard products apply Grade V-2 material (Flame Class). For Grade V-0 type please contact us.

Packing Specifications
Tray

| Product No. | Number of packages (pcs.) | | Export package measurements (mm) |
|--|---------------------------|-------------------------|----------------------------------|
| | 1 case / Japan | 1 case / export packing | |
| SDDJE11600, SDDJE10300, SDDJE10700, SDDJE11200, SDDJE31600, SDDJE30100, SDDJE32700, SDDJE30200, SDDJE30300, SDDJE33300, SDDJE30500, SDDJE30700 | 400 | 2,000 | 411×328×379 |
| SDDJE12200, SDDJE12300, SDDJE12400, SDDJE12500, SDDJE32000, SDDJE32100, SDDJE30400 | 250 | 1,250 | |

Dimensions

Unit:mm

| No. | Style (ON position) | |
|-----|--|--|
| 1 | <p>For Lead (SPST)</p> <p>※This can also be used as a tab terminal(#187). Please use positive connector type.</p> | |
| 2 | <p>Right angle (SPST) With frame</p> <p>PC board mounting surface</p> <p>Mounting face</p> | <p>PC board mounting hole dimensions</p> |
| 3 | <p>For Lead (DPST)</p> <p>※This can also be used as a tab terminal(#187). Please use positive connector type.</p> | |

Detector
Slide
Push
Rotary
Power
Dual-in-line Package Type
Push Type
Rocker Type
Slide Type
Rotary Type

SDDJE 10A 250V AC Qualified Type

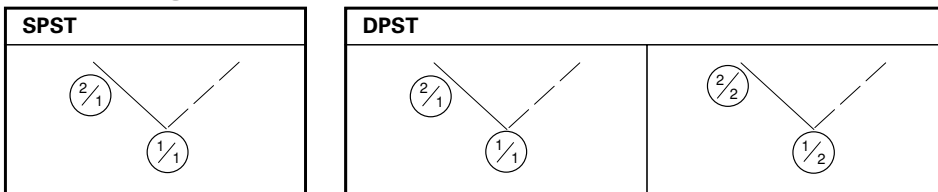
- Detector
- Slide
- Push
- Rotary
- Power
- Dual-in-line Package Type
- Push Type
- Rocker Type
- Slide Type
- Rotary Type

Dimensions

Unit:mm

| No. | Style (ON position) | PC board mounting hole dimensions |
|-----|--|-----------------------------------|
| 4 | Right angle (DPST) | |
| 5 | Right angle (DPST) With frame | |
| 6 | For PC board (DPST) | |

Circuit Diagram



■ Mounting Hole Dimensions

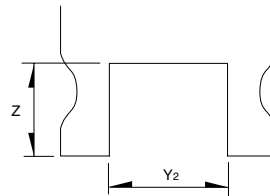
Square-shaped Hole

| Unit:mm | | |
|-----------------------------|-------------------|-------------------|
| Thickness of mounting board | Y1 | Z |
| 0.75 to 1.25 | $19.2^{0}_{-0.1}$ | $12.9^{+0.1}_{0}$ |
| 1.25 to 2.00 | $19.4^{0}_{-0.1}$ | |



U-shaped Hole

| Unit:mm | | |
|-----------------------------|-------------------|-------------------|
| Thickness of mounting board | Y2 | Z |
| 0.75 to 1.1 | $19.5^{0}_{-0.1}$ | $12.9^{+0.1}_{0}$ |
| 1.1 to 1.7 | $19.7^{0}_{-0.1}$ | |
| 1.7 to 2 | $19.9^{0}_{-0.1}$ | |



Note

Verify the performance under actual product conditions before use.











■ Marking Variety



Detector
Slide
Push
Rotary
Power
Dual-in-line Package Type
Push Type
Rocker Type
Slide Type
Rotary Type

Power Switches

List of Varieties

| Type | | Push | | | Rocker | | |
|-----------------------------|-----------------------|---|--|--|---|---|--|
| Series | | SDKR | SDDH | SDKN | SDDJE ※ 1 ※ 2 | SDDJF ※ 1 ※ 2 | |
| Photo | |  |  |  |  |  | |
| Rating | | 0.5A 250V AC 1A 125V AC 10mA 5V DC | Rating (max.): 4.5A 12V DC (Lamp load: 27W×2) Rating (min.): 10mA 12V DC (Resistive load) | 0.25A 250V AC 0.5A 125V AC 5mA 5V DC | 10AGP 250V AC 6A / 96A 250V~ | 16AGP 250V AC 16 (6) / 250~ | |
| Operating life | | 100,000cycles | 100,000 cycles | 5,200cycles | 10,000cycles | | |
| | | 0.5A 250V AC | | 0.25A 250V AC | 10A 250V AC | 16A 250V AC | |
| Travel (mm) | | 1.5 | 3.7 | 9 9.7 | 3.4 | 5.2 | |
| Features | | Water-proof type With signal circuit | Water-proof (IP68 rating) | — | — | — | |
| Operating temperature range | | -10°C to +85°C | -15°C to +80°C | -20°C to +60°C | -10°C to +55°C | | |
| Automotive use | | — | ● | — | — | — | |
| Life cycle (availability) | |  |  |  |  |  | |
| Electrical performance | Contact resistance | 100mΩ max. (AC switch) 500mΩ max. (DC switch) | 500mΩ max. | 100mΩ max. | 100mΩ max. | | |
| | Insulation resistance | 500MΩ min. 500V DC (AC switch) 100MΩ min. 100V DC (DC switch) | 10MΩ min. 500V DC | 100MΩ min. 500V DC | 500MΩ min. 500V DC | | |
| | Voltage proof | 1000V AC for 1minute (AC switch) 100V AC for 1minute (DC switch) | 500V AC for 1minute | 600V AC for 1minute | 2,000V AC for 1minute | | |
| Mechanical performance | Terminal strength | 5N for 1minute | Slider pull-out strength: 100N min. | 50N for 1minute | 50N for 1minute (Lead terminal) 5N for 1minute (Right-angle terminal) | 60N for 1minute (Lead terminal) 10N for 1minute (Right-angle terminal) | |
| | Actuator strength | Operating direction | 100N | — | 20N | 25N | |
| | | Perpendicular direction | 20N | — | 30N | 25N | |
| Environmental performance | Cold | -20°C 240h | -15°C 96h | -30°C 192h | -20°C 96h | | |
| | Dry heat | 85°C 240h | 80°C 96h | 70°C 192h | 85°C 96h | | |
| | Damp heat | 60°C, 90 to 95%RH 1000h | 40°C, 90 to 95%RH 96h | 40°C, 90 to 95%RH 192h | 40°C, 90 to 95%RH 96h | | |
| Page | | 152 | 153 | 154 | 156 | 160 | |

| | |
|-------------------------------------|-----|
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| Power Switches Cautions | 168 |
| Power Switches Safety Standard | 168 |

Notes

- ※ 1. Dip soldering can be used on SDDJE for PC board terminal and SDDJF right angle terminal types only.
- ※ 2. The operating temperature range can be raised upon request. Please contact us for details.
- Indicates applicability to all products in the series.

Reference for Hand Soldering

| Series | Soldering temperature | Soldering time |
|---|-----------------------|----------------|
| SDDJE, SDDJF, SDKP, SDDJF1A, SDKZ, SDDE | 350±10℃ | 3+1/0s |
| SDKR | 300±10℃ | 3±0.5s |

Reference for Dip Soldering

(For PC board terminal types and SDDJF right-angle terminal types)

| Series | Dip soldering | |
|--------------------------------------|-----------------------|-----------------------|
| | Soldering temperature | Duration of immersion |
| SDKR, SDDJE, SDDJF, SDKP, SDKZ, SDDE | 260±5℃ | 10±1s |

Power Switches / Cautions

1. The primary power supply switching is subject to the safety regulations, and the provisions differ by each destination. Consult with us for non-standard use cases.
2. An unstable contact may occur if the switch current is lower than 0.5A. For this case, consult with us.
3. These power switches were produced for alternating current. For direct current, consult with us.
4. Applying load to terminals during soldering under certain conditions may cause deformation and electrical property degradation.
5. Avoid use of water-soluble soldering flux, since it may corrode the switches.
6. When soldering twice, wait until the first soldered portion cools to normal temperature. Continuous heating will deform the external portions, loosen or dislodge terminals, or may deteriorate their electrical characteristics.
7. Before soldering switches with locking mechanism, release the locks. If they are soldered without releasing the locks, the soldering heat may deform the locking mechanism.
8. Be sure to release the locks before removing the knobs. Otherwise, the locking mechanism may be broken.
9. Be sure to use the switch with forced travel positioned as close to the total travel as possible.
10. Tighten the mounting screws by applying the specified torque. Tightening with a larger torque than the specified will result in malfunction or breakage of screws.
11. Corrosive gas if generated by peripheral parts of a set, malfunction such as imperfect contact may occur. Thorough investigation shall be required beforehand.
12. Storage
Store the products as delivered at normal temperature and humidity, out of direct sunlight and away from corrosive gases. Use them as soon as possible and no later than six months after delivery. Once the seal is broken, use them as soon as possible.

Power Switches / Safety Standards

1. Safety Standards Outline

Safety standards are established by a country or an organization representing it to protect general users from electrical shock and fire hazards. It establishes standards for electrical devices and components. For electrical equipment manufacturers, utilizing switches that have been safety-approved ensures the safety of the switch. The use of a safety-approved switch also simplifies at least one part of the process of obtaining certification by safety testing.

2. Major Safety Standards

(1) Electrical Appliance and Material Safety Law

The conventional [Electrical Appliance and Material Control Law] has changed to [Electrical Appliance and Material Safety Law] and has been enforced since April 1, 2001. Electrical appliances are categorized into special electric appliances and parts (formerly Class A) and Electrical appliances other than the special electric appliances (formerly Class B). Special electric appliances are required to receive goodness of fit test at a certified test agency and to store the certificate. Also, penal provisions have been reinforced.

(2) UL (Underwriters Laboratories Inc.)

Underwriters Laboratories Inc. (UL) is the American safety approving organization. Its purpose is to ensure consumer safety and protect them from fire hazards. State law requires that equipment to be exported to the United States utilize UL approved power switches or power switches meeting UL standards and capable of passing UL tests.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9