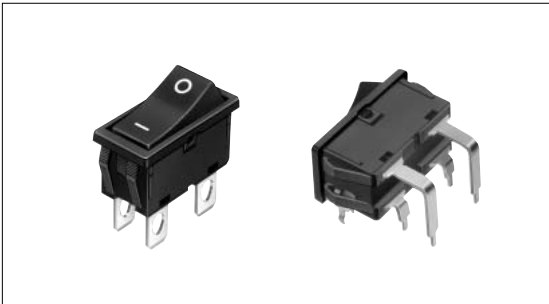


Power Switch  
**16A 250V AC Qualified Type**  
SDDJF Series



Low-profile and large capacity type suitable for copiers and printers.



Ratings and Safety Standards

| Items                                                                    | Specifications |
|--------------------------------------------------------------------------|----------------|
| UL<br>CSA                                                                | 16A 250V AC    |
| SEMKO                                                                    | 16 (6)/250~    |
| VDE                                                                      | 16 (6)/250~    |
| BS                                                                       | 16 (6)/250~    |
| Ratings satisfying local electrical<br>appliance and material safety law | 125V 16A≒      |

Product Line

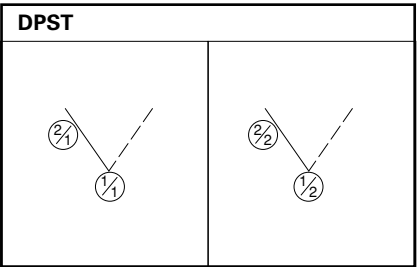
| Circuit arrangement | Travel (mm) | Operating force | Mounting method | Terminal configuration | Marking (Knob) | Minimum order unit (pcs.) | Product No. | Drawing No. |  |
|---------------------|-------------|-----------------|-----------------|------------------------|----------------|---------------------------|-------------|-------------|--|
| DPST                | 5.2         | 6±3N            | Snap-in         | Lead                   | ● mark         | 1,500                     | SDDJF30100  | 1           |  |
|                     |             |                 |                 |                        | IO mark        |                           | SDDJF30200  |             |  |
|                     |             | 3±2N            |                 | Right angle            | ● mark         | 1,000                     | SDDJF31000  | 2           |  |
|                     |             |                 |                 |                        | IO mark        |                           | SDDJF31100  |             |  |

Dimensions

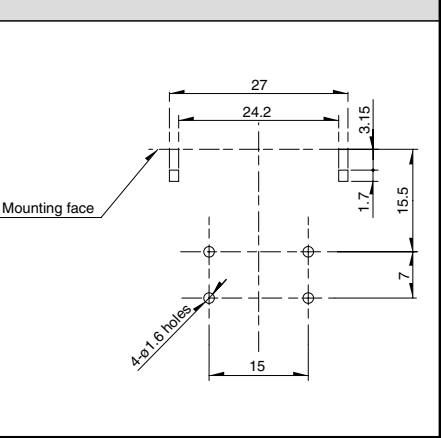
Unit:mm

| No. | Configuration (ON position) |
|-----|-----------------------------|
| 1   | <b>Lead</b><br>             |
| 2   | <b>Right angle</b><br>      |

Circuit Diagram



PC board mounting hole dimensions



Notes

- The lead terminals are also used as faston terminals #250 (Use a positive lock connector type).
- Please place purchase orders per minimum order unit(integer).

Power Switch

16A 250V AC Qualified Type

SDDJF Series

Mounting Hole Dimensions

| Square-shaped Hole          |                |   | Unit:mm |  |
|-----------------------------|----------------|---|---------|--|
| Thickness of mounting board | Y <sub>1</sub> | Z | 12.9    |  |
| 0.75 to 1.25                | 28.2           | Z |         |  |
| 1.25 to 2.00                | 28.4           |   |         |  |

A technical diagram showing a square-shaped hole in a mounting board. The vertical dimension is labeled 'Z' and the horizontal dimension is labeled 'Y1'.

| U-shaped Hole               |                |   | Unit:mm |  |
|-----------------------------|----------------|---|---------|--|
| Thickness of mounting board | Y <sub>2</sub> | Z | 12.9    |  |
| 0.75 to 1.1                 | 28.4           | Z |         |  |
| 1.1 to 1.7                  | 28.6           |   |         |  |
| 1.7 to 2                    | 28.8           |   |         |  |

A technical diagram showing a U-shaped hole in a mounting board. The vertical dimension is labeled 'Z' and the horizontal dimension is labeled 'Y2'.

Note

Verify the performance under actual product conditions before use.

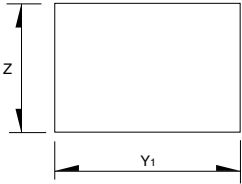
Marking Variety

| With IO marking                                                                                               | With ● marking                                                                              |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| A 3D perspective view of a rocker switch. The top surface features a large 'O' symbol and a small 'I' symbol. | A 3D perspective view of a rocker switch. The top surface features a small solid black dot. |

■ Mounting Hole Dimensions

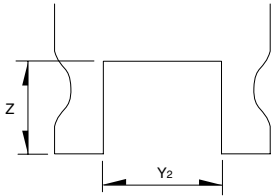
Square-shaped Hole Unit:mm

| Thickness of mounting board | Y <sub>1</sub> | Z    |
|-----------------------------|----------------|------|
| 0.75 to 1.25                | 28.2           | 12.9 |
| 1.25 to 2.00                | 28.4           |      |



U-shaped Hole Unit:mm

| Thickness of mounting board | Y <sub>2</sub> | Z    |
|-----------------------------|----------------|------|
| 0.75 to 1.1                 | 28.4           | 12.9 |
| 1.1 to 1.7                  | 28.6           |      |
| 1.7 to 2                    | 28.8           |      |



Note

Verify the performance under actual product conditions before use.

■ Marking Variety

| With IO marking | With ● marking |
|-----------------|----------------|
|                 |                |

## List of Varieties

| Items                       |                              | Type                    | Push                                                                              |                                                                                   |                                                                                   |                                                                                   | Rocker                                                                              |                                                                                     |
|-----------------------------|------------------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                             |                              | Series                  | SDKN                                                                              | SDKS                                                                              | SDKQ                                                                              | SDKR                                                                              | SDDJE ※1<br>※2                                                                      | SDDJF ※1<br>※2                                                                      |
| Photo                       |                              |                         |  |  |  |  |  |  |
| Travel (mm)                 |                              |                         | 9<br>9.7                                                                          | 14.6                                                                              | 2.5                                                                               | 1.5                                                                               | 3.5                                                                                 | 5.2                                                                                 |
| Remark                      |                              |                         |                                                                                   |                                                                                   |                                                                                   | Water-proof type                                                                  |                                                                                     |                                                                                     |
| Operating temperature range |                              |                         | -20℃ to +60℃                                                                      | -30℃ to +60℃                                                                      | -10℃ to +60℃                                                                      | -10℃ to +85℃                                                                      | -10℃ to +55℃                                                                        |                                                                                     |
| Rating                      |                              |                         | 0.25A 250V AC<br>0.5A 125V AC<br>5mA 5V DC                                        | 2A 250V AC<br>4A 125V AC                                                          | 3A 125V AC                                                                        | 0.5A 250V AC<br>1A 125V AC                                                        | 6A/96A 250V~                                                                        | 16 (6)/250~                                                                         |
| Electrical performance      | Contact resistance           |                         | 100mΩ max.                                                                        | 50mΩ max.                                                                         | 100mΩ max.                                                                        |                                                                                   |                                                                                     |                                                                                     |
|                             | Insulation resistance        |                         | 500MΩ min.<br>500V DC                                                             | 100MΩ min.<br>500V DC                                                             | 500MΩ min. 500V DC                                                                |                                                                                   |                                                                                     |                                                                                     |
|                             | Voltage proof                |                         | 1,000V AC for 1minute                                                             | 1,500V AC for 1minute                                                             |                                                                                   | 1,000V AC for 1minute                                                             | 2,000V AC for 1minute                                                               |                                                                                     |
| Mechanical performance      | Terminal strength            |                         | 50N for 1minute                                                                   | 70N for 1minute                                                                   | —                                                                                 | 5N for 1minute                                                                    | 10N for 1minute                                                                     | 60N for 1minute                                                                     |
|                             | Actuator strength            | Operating direction     | 20N                                                                               |                                                                                   | 100N                                                                              |                                                                                   | 25N                                                                                 |                                                                                     |
|                             |                              | Perpendicular direction | 20N                                                                               | 30N                                                                               | 20N                                                                               |                                                                                   | 25N                                                                                 |                                                                                     |
|                             | Resistance to soldering heat | Manual soldering        |                                                                                   |                                                                                   |                                                                                   | 300±10℃, 3±0.5s                                                                   | 350±10℃, 3±0.5s                                                                     |                                                                                     |
|                             |                              | Dip soldering           |                                                                                   |                                                                                   |                                                                                   | 260±5℃, 10±1s                                                                     | ※260±10℃, 10±1s                                                                     |                                                                                     |
| Durability                  | Operating life               |                         | 6,000cycles                                                                       |                                                                                   | 12,000cycles                                                                      | 100,000cycles                                                                     | 10,000cycles                                                                        |                                                                                     |
|                             |                              |                         | Load : as ratings                                                                 |                                                                                   |                                                                                   | Refer to individual product spec.                                                 | Load : as ratings                                                                   |                                                                                     |
| Environmental performance   | Cold                         |                         | -30±2℃ for 96h                                                                    | -40±2℃ for 96h                                                                    | -25±2℃ for 240h                                                                   | -20±2℃ for 240h                                                                   | -20±2℃ for 96h                                                                      |                                                                                     |
|                             | Dry heat                     |                         | 85±2℃ for 96h                                                                     |                                                                                   | 85±2℃ for 240h                                                                    |                                                                                   | 85±2℃ for 96h                                                                       |                                                                                     |
|                             | Damp heat                    |                         | 40±2℃, 90 to 95%RH for 96h                                                        |                                                                                   | 40±2℃, 90 to 95%RH for 240h                                                       | 60±2℃, 90 to 95%RH for 1000h                                                      | 40±2℃, 90 to 95%RH for 96h                                                          |                                                                                     |
| Page                        |                              |                         | 215                                                                               | 217                                                                               | 219                                                                               | 220                                                                               | 221                                                                                 | 225                                                                                 |

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line  
Package Type

TACT Switch™

Custom-  
ProductsPush  
TypeRocker  
TypeSlide  
TypeRotary  
Type

- Power Switches Cautions .....235
- Power Switches Safety Standard .....237, 238, 239

## Notes

1. ※1. Dip soldering can be used on SDDJE For PC board terminal and SDDJF right angle terminal types only.
2. ※2. The operating temperature range for automotive applications can be raised upon request. Please contact us for requirements of this kind.