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 ord	er unit (pcs.) Export	Product No.	Drawing No.
				For Lead	Without			2,000	SDDJE11600	1
				Right angle	With	Without		1,250	SDDJE12200	2
				For Lead	Without	■ mark		2,000	SDDJE10300	1
SPST				Right angle	With	Tillark		1,250	SDDJE12300	2
3F31		3±2N		For Lead	Without	IO mark		2,000	SDDJE10700	1
				Right angle	With	IOTHAIR		1,250	SDDJE12400	2
				For Lead	Without	-O mark		2,000	SDDJE11200	1
				Right angle	With	Official		1,250	SDDJE12500	2
		3.4	Snap-in	For Lead	Without	Without	100	2,000	SDDJE31600	3
3.4	3.4			Right angle	With			1,250	SDDJE32000	5
				For Lead					SDDJE30100	3
			For PC board	Without	● mark		2,000	SDDJE32700	6	
				Dight angle		• IIIdi K			SDDJE30200	4
DPST	6±3N		Right angle	With			1,250	SDDJE32100	5	
				For Lead				2,000	SDDJE30300	3
				For PC board	Without	IO mark			SDDJE33300	6
				Right angle					SDDJE30500	4
					With			1,250	SDDJE30400	5
				For Lead	Without	-0 mark		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.

Unit:mm

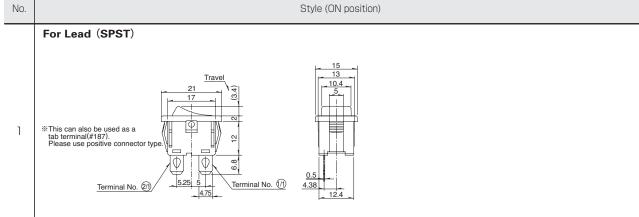
Packing Specifications

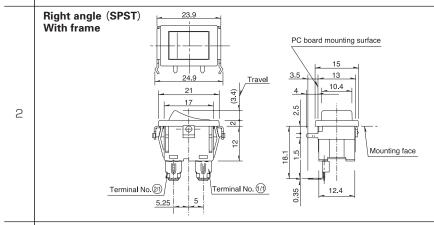
Tray

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

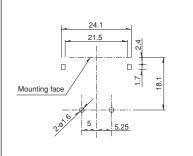
Dimensions

Style (ON position)

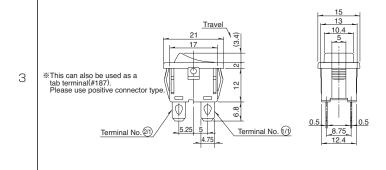


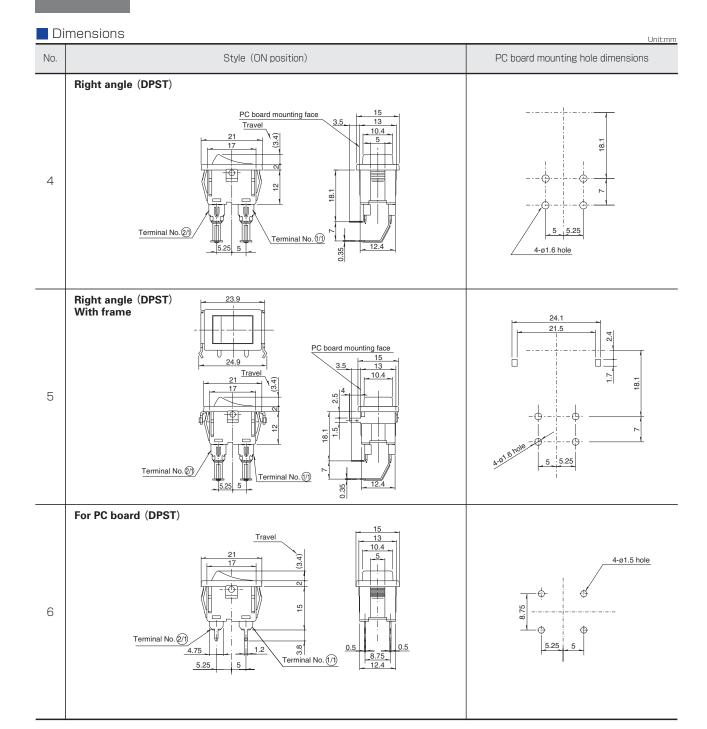


PC board mounting hole dimensions

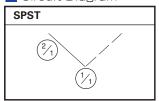


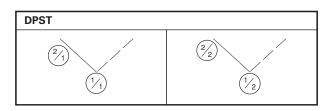
For Lead (DPST)





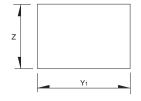
Circuit Diagram

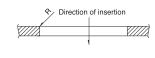




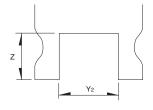
■ Mounting Hole Dimensions

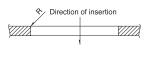
Square-shaped Hole		Unit:mm
Thickness of mounting board	Y1	Z
0.75 to 1.25	19.2 ⁰ _{0.1}	12.9 ^{+ 0.1}
1.25 to 2.00	19.4 ⁰ _{0.1}	12.90





U-shaped Hole		Unit:mm
Thickness of mounting board	Y2	Z
0.75 to 1.1	19.5 ⁰ _{0.1}	
1.1 to 1.7	19.7 ⁰ o.1	12.9 ₀ ^{+ 0.1}
1.7 to 2	19.9 0 0.1	

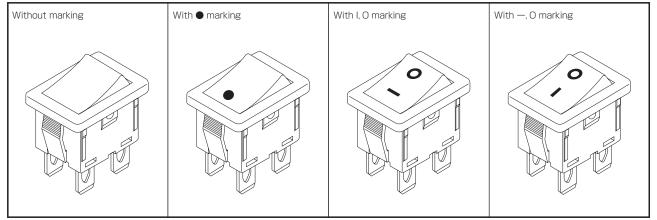




Note

Verify the performance under actual product conditions before use.

Marking Variety



List of Varieties

	Туре		Push			Rocker		
Series		SDKR	SDDH	SDKN	SDDJE * 1 * 2	SDDJF % 1		
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~	
0-			100,000cycles	100,000 avalas	5,200cycles	10,000cycles		
Ор	erating life		0.5A 250V AC	100,000 cycles	0.25A 250V AC	10A 250V AC 16A 250V A		
Tra	avel (mm)		1.5	3.7	9 9.7	3.4	5.2	
F	eatures		Water-proof type With signal circuit	Water-proof (IP68 rating)	_	_	_	
Operating :	temperatur	e range	−10°C to +85°C	−15°C to+80°C	-20°C to +60°C	−10°C to +55°C		
Auto	Automotive use		_	•	_	0	0	
Life cyc	cle (availab	ility)	* 3	* 3	*3	*3	*3	
Contact resistance		100mΩ max. (AC switch) 500 mΩ max. (DC switch)	500mΩ max.	100mΩ max.	100mΩ max.			
Electrical performance	Insula resista		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		
Machaniaal	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)	
Mechanical performance	Actuator	Operating direction	100N	_	20N	25	5N	
	strength	Perpendicular direction	20N	_	30N	25	5N	
	Cold		-20℃ 240h	−15°C 96h	-30°C 192h	-20°C 96h		
Environmental performance	Dry heat		85℃ 240h	80℃ 96h	70℃ 192h	85°C 96h		
	Damp heat		60°C, 90 to 95%RH 1000h	40°C, 90 to 9	95%RH 192h	5%RH 192h 40°C, 90 to 95%RH 96h		
	Page		160	161	162	164	168	

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 details.
- 3. left Indicates applicability to all products in the series, while \bigcirc indicates applicability to some 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 so	Dip soldering		
Jelles	Soldering temperature	Duration of immersion		
SDKR, SDDJE, SDDJF, SDKP, SDKZ, SDDE	260±5℃	10±1s		

Power Switches Cautions

Power Switches Soldering Conditions

- 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. Appling 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.

