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)/ 2				
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	Travel	Operating	Mounting	Terminal	Frame	Marking	Minimum ord		Product No.	Drawin		
arrangement	(mm)	force	method	configuration		(Knob)	Japan	Export		No.		
				For Lead	Without	Without	400	2,000	SDDJE11600	1		
				Right angle	With	Without	250	1,250	SDDJE12200	2		
				For Lead	Without	• ma a mi r	400	2,000	SDDJE10300	1		
SPST		2+2N		Right angle	With	● mark	250	1,250	SDDJE12300	2		
5221		3±2N		For Lead	Without	IO mark	400	2,000	SDDJE10700	1		
				Right angle	With		IU mark	250	1,250	SDDJE12400	2	
				For Lead	Without	O morti	400	2,000	SDDJE11200	1		
				Right angle	With	–0 mark	250	1,250	SDDJE12500	2		
		3.4	Snap-in	For Lead	Without	Without	400	2,000	SDDJE31600	З		
	3.4			Right angle	With		250	1,250	SDDJE32000	5		
				For Lead		● mark			SDDJE30100	З		
				For PC board			● mark		400	2,000	SDDJE32700	6
									● mark	• mark		
DPST		6±3N		Right angle		250	1,250	SDDJE32100	5			
				For Lead		IO mark	400 2,000		SDDJE30300	3		
				For PC board	Without			SDDJE33300	6			
				D . 1.1					SDDJE30500	4		
				Right angle	With		250	1,250	SDDJE30400	5		
				For Lead	Without	–0 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.



Detector

Power

Push Type

Type

Type

SDDJE/10A 250V AC Qualified Type

Packing Specifications

Tray				
Product No	Number of pa	ckages (pcs.)	Export package	
FIODUCE NO.	1 case /Japan	1 case /export packing	measurements (mm)	
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	411-320-379	

Dimensions



Detector

Push

157

10A 250V AC Qualified Type SDDJE

Dimensions



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 $\left(\frac{1}{2}\right)$

(1/1)

Slide

Push

Rotary

Dual-in-l Package

Power

-line Type

Push Type

Slide

Rotary Type

Mounting Hole Dimensions

Square-shaped Hole

Square-snaped Hole		Unit:mm
Thickness of mounting board	Y١	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

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 - 0.1	12.9 ^{+0.1}				
1.7 to 2	19.9 ⁰ - 0.1					







Note

Ζ

Verify the performance under actual product conditions before use.



Push Type

Detector

Slide

Push

Rotary

Power

Dual-in-line Package Type



Power Switches List of Varieties

	Type Push				Rocker			
Series		SDKR	SDDH	SDKN	SDDJE * 1 * 2	SDDJF % 1 % 2		
Photo			*	Ø Ø	*			
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~		
-			100,000cycles		5,200cycles	10,000cycles		
Op	erating life		0.5A 250V AC	100,000 cycles	0.25A 250V AC	10A 250V AC 16A 250V		
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	temperature	e range	–10°C to +85°C	–15°C to+80°C	–20°C to +60°C	−10℃ to +55℃		
Automotive use		9	_	•	_	_	_	
Life cycle (availability)		*3	*3	*3	*3	*3		
	Contact resistance		100mΩ max. (AC switch) 500mΩ max. (DC switch)	500mΩ max.	100mΩ max.	100mΩ max.		
Electrical performance	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 Iminute	
	Terminal s	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°C 240h	-15°C 96h	-30°C 192h	-20°C 96h		
Environmental performance	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		
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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 can be raised upon request. Please contact us for details.

3. ● Indicates applicability to all products in the series.

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Detector

Dual-in-line Package Type

Push Type

Rocker Type

Slide Type

Rotary Type

Power Switches / Soldering Conditions

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			
Selles	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. 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.





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный) **Факс:** 8 (812) 320-02-42 **Электронная почта:** <u>org@eplast1.ru</u> **Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.