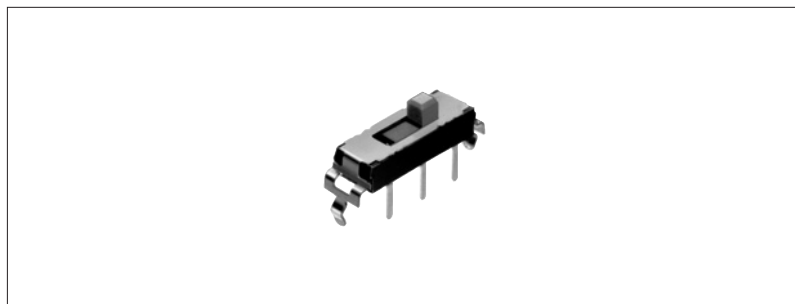


4.0mm-travel, Self-return Type Slide Switch

SSST Series

Two horizontal types: one has a cover and the other is an integrated design without a cover.



Car Use

Features

- 4.0mm-travel.
- Reflow solderable type also available.

Applications

- AV devices including digital camcorders and industrial cameras

Typical Specifications

Items		Specifications
Rating (max.) (Resistive load)		0.1A 12V DC
Contact resistance (Initial performance / After lifetime)		70mΩ max. / 130mΩ max.
Operating force		2±1N
Operating life	Without load	10,000 cycles
	With load	10,000 cycles (0.1A 12V DC)

Products Line

Travel (mm)	Operating section directions	Length of operating section (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum packing unit (pcs.)	Products No.	Drawing No.
4	Vertical	2	1	2	Snap-in (t1)	Non shorting	Manual, Dip	100	SSST010600	1
		3							SSST010500	
		2					—	Reflow	1,100	SSST011000

Note

Additional switches not included in the above list are also available. Contact us for details.

Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone-hook

Detector

Vibration Sensors

Dual-in-line Package Type

Multi Control Devices

TACT

Small size General Use type

Big size General Use type

Other Use type

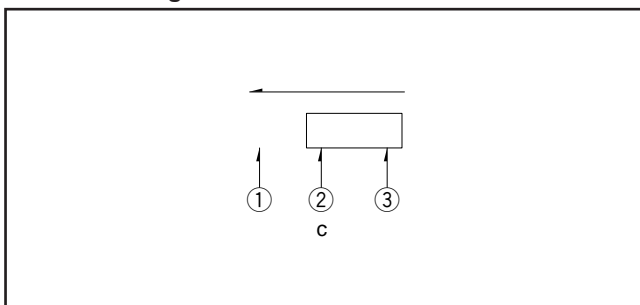
For other detailed specifications, see P.151
For specifications for the taping package, see P.153

Dimensions

Unit : mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
1	<p>Insertion type</p>	
2	<p>Reflow type</p>	

Circuit Diagram (Viewed from the Direction A)



- Power
- Push
- Slide**
- Rotary
- Encoders
- Jog Shuttle
- Telephone-hook
- Detector
- Vibration Sensors
- Dual-in-line Package Type
- Multi Control Devices
- TACT
- Small size General Use type
- Big size General Use type
- Other Use type

Products Specifications

Items		Series	SSSB	SSAA	SSAC	SSAB	SSST	
Operating temperature range		-10°C to +60°C						
Rating (max.) (Resistive load)		0.3A 30V DC	0.1A 30V DC	1mA 5V DC (Rating)	0.1A 12V DC			
Electrical performance	Initial contact resistance	20mΩ max.	25mΩ max.	100mΩ max.	30mΩ max.	70mΩ max.		
	Insulation resistance	100MΩ min. 500V DC		100MΩ min. 100V DC	100MΩ min. 500V DC			
	Voltage proof	500V AC for 1 min.		100V AC for 1 min.	500V AC for 1 min.			
Mechanical performance	Robustness of terminal	5N for 1 min.					3N for 1 min.	
	Robustness of actuator	Operating direction	50N	10N	5N	30N	20N	
		Pulling direction	30N static force			40N	10N	
	Vibration		10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively					
	Solderability		230±5°C, 3±0.5s					
	Resistance to soldering heat	Manual soldering	350±10°C 3 ⁺ ±s		300±10°C 2s max.	350±10°C 3 ⁺ ±s	350±10°C 3s max.	
		Dip soldering	260±5°C 10±1s		260±10°C 5±1s	260±5°C 10±1s	260±5°C 5 ⁺ ±s	
Reflow soldering							Please see P.152	
Durability	Operating life without load	10,000 cycles 40mΩ max.	10,000 cycles 45mΩ max.	10,000 cycles 200mΩ max.	1,000 cycles 60mΩ max.	10,000 cycles 100mΩ max.		
	Operating life with load Load : As rating	5,000 cycles 60mΩ max.	10,000 cycles 65mΩ max.		1,000 cycles 80mΩ max.	10,000 cycles 130mΩ max.		
Environmental performance	Cold	-20±2°C for 96h						
	Dry heat	85±2°C for 96h						
	Damp heat	40±2°C, 90 to 95%RH for 96h						

Power

Push

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Rotary

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Jog Shuttle

Telephone hook

Detector

Vibration

Sensors

Dual-in-line
Package TypeMulti Control
Devices

TACT

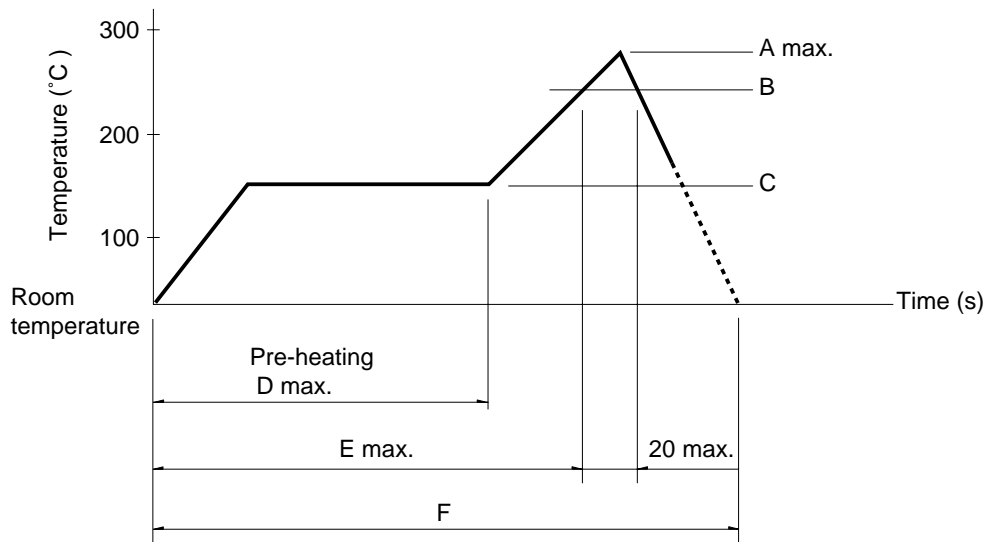
Small size
General Use typeBig size
General Use type

Other Use type

Soldering Conditions

Example of Reflow Soldering Condition

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple 0.1 to 0.2 ϕ CA(K) or CC(T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
3. Temperature profile



Series (Reflow type)			A (°C) 3s max.	B (°C)	C (°C)	D (s)	E (s)	F (s)				
SSSS2	Vertical	1-pole, 3-positions	250	200	150	120	—	—				
	Horizontal	1-pole, 2-positions										
	Vertical	1-pole, 2-positions										
	Horizontal	1-pole, 3-positions 2-poles, 3-positions	240									
SSSS7			250									
SSAD			240	220								
SSSS8	Horizontal	1-pole, 2-positions 1-pole, 3-positions (1.5mm)	255	200								
		1-pole, 3-positions (2mm) 1-pole, 4-positions 2-poles, 2-positions	240	220								
	Vertical											
SSST			240	200								

Notes

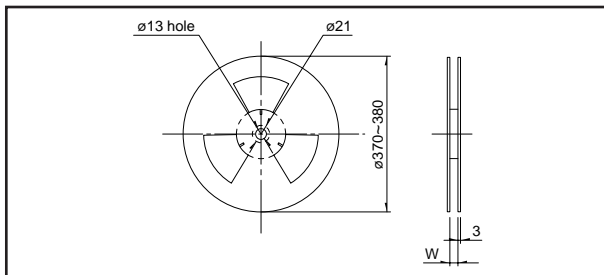
1. The condition mentioned above is the temperature on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.
2. Soldering conditions differ depending on reflow soldering machines. You are requested to verify the soldering conditions thoroughly beforehand.

Taping Specifications

Taping Packaging

Reel Size

Unit : mm



Series		Number of packages (pcs.)			Reel width W (mm)	Tape width (mm)	
		1 reel	1 case/domestic	1 case/export packing			
SSSS2		1,400	2,800	5,600	24.4	24	
SSSS7※		2,000	4,000	8,000	25.5		
SSSS8	Vertical	1,800	3,600	7,200	24.4	16	
	Horizontal	1-pole, 2-positions (1.5mm) 1-pole, 2-positions (2mm) 1-pole, 3-positions (1.5mm)	4,500	9,000	18,000		16.4
		1-pole, 3-positions (2mm)	4,500	9,000	18,000		24.4
		1-pole, 4-positions 2-poles, 2-positions	2,500	5,000	10,000		
SSST		1,100	2,200	4,400			
SSAD		5,000	10,000	20,000	16.4	16	

Notes

- Order products in N minimum packing units (1 reel or 1 case).
- ※For the SSSS7 Series only, the reel is different from what is illustrated.

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TACT

Small size
General Use typeBig size
General Use type

Other Use type