■ Typical Specifications

Ite	ms	Specifications		
Rating (max.)/(min.) (Resistive load)		1mA 5V DC / 50μA 3V DC		
Contact resistance (Initial / After operating life)		2Ω max. $/ 5Ω$ max.		
Operating force		0.35N max.		
Operating life	Without load	50,000cycles		
	With load	50,000cycles (1mA 5V DC)		

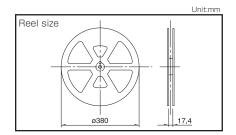
Product Line

Poles Positions		Terminal type	Total travel	Location lug	Minimum order unit (pcs.)		Product No.	
FUIES	FUSILIUIIS	Terminal type	(mm)	Lucationing	Japan	Export	FIOUUCL NO.	
Two-direction type : 2-position each side	For PC board	3.73	With	4,000	16,000	SSCQ110100		
	(Reflow)	0.75	Without	4,000	10,000	SSCQ120102		

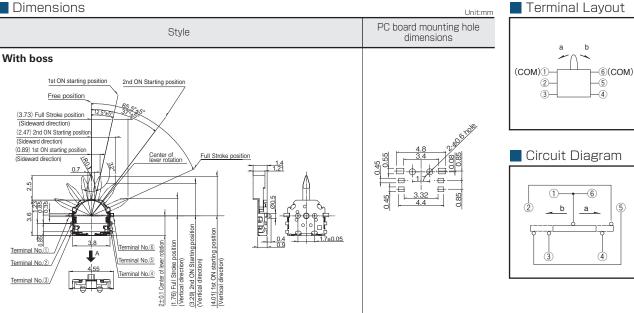
Packing Specifications

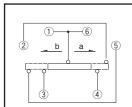
Taping

Nun	nber of packages (p	Tape width	Export package measurements		
1 reel 1 case /Japan 1 case /export packing			(mm)	(mm)	
4,000	4,000 8,000 16,000		16	417×409×139	



Dimensions





Dimensions drawing is for type with location lugs.

ast Switchin

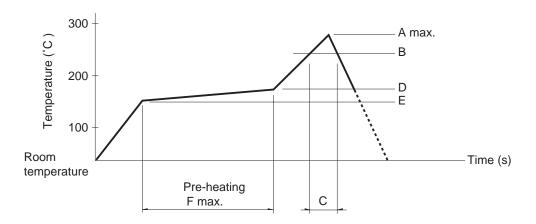
		General-purpose Type						
	Series -	SSCQ	SSCM	SPVL	SPPB			
Photo								
Operation type		Two-way Two-direction type	Two-way	Three-way	One-way Two-way			
	W	3.8	5	5.55	6.3			
Dimensio (mm)	ins D	3.6	4	6.6	3			
	Н	0.9	1.5	1	4.9			
Operating to	emperature range	-10℃ to	o+60℃	−40°C to +85°C				
Autor	notive use	_	_	•	•			
Life cycl	e (availability)	★3	* 3	**3	*3			
Poles	/ Positions	1 / Two-direction type: 2-position each side			1/1			
Rating (max.) (Resistive load)		1mA 5V DC			0.1A 30V DC			
Rating (min.) (Resistive load)		50μA 3V DC						
Operating life without load		$50,000$ cycles 5Ω max.			50,000cycles 2Ω max.			
Durability	Operating life with load Rating (max.) (Resistive load)		50,000cycles 5Ω max		50,000cycles 2Ω max.			
	Initial contact resistance	2Ω max.			lΩ max.			
Electrical Insulation performance resistance		100MΩ min. 100V DC						
	Voltage proof		100V AC f	or 1 minute				
Mechanical	Terminal strength	0.5N for	0.5N for 1minute		3N for 1minute			
performance	Actuator strength	1N	2N	5N	10N			
Cold Environmental performance Dry heat		-20°C	C 96h	-40°C 500h				
		85°C	96h	85°C 500h				
	Damp heat	40°C, 90 to 95%RH 96h 60°C, 90 to 9			95%RH 500h			
Opera	ation force	0.35N max.						
Page		29	30	31	32			

Note

Indicates applicability to all products in the series.

Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater.
 2. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 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 (℃) 3s max.	B (℃)	C (s)	D (°C)	E (℃)	F(s)
SPPB	250					
SPVE						
SPVL						
SPVM						
SPVN						
SPVR	260	230	40	180	150	120
SPVS						
SPVT						
SSCM						
SSCQ						
SPVQC	250					

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, surface 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. Prior verification of soldering condition is highly recommended.

■ Reference for Hand Soldering

Series	Soldering temperature	Soldering time
SPVS, SPVN, SPVT, SPVM, SPVR, SPVE, SSCQ, SSCM, SPVL, SSCT, SPVQC	350±5℃	3s max.
SPVQ3, SPVQ6, SPVQ7, SPVQ8, SPVQ9, SSCN, SPVQA	300±10℃	3+1/0s
SPPB (Reflow)	300±5℃	5s max.
SSCF, SPPB (For Lead, Dip)	350±10℃	3+1/0s

■ Reference for Dip Soldering

(For PC board terminal types)

	Ite	ms	Dip soldering	
Series	Preheating temperature	Preheating time	Soldering temperature	Duration of immersion
SSCT, SPVQ3, SPVQ6, SPVQ7, SPVQ8, SPVQ9, SPVQA	100±10℃	60s max.	260±5℃	5±1s
SPPW8, SPPB	100 ℃ max.	60s max.	255±5℃	5±1s
SSCF	_		260±5℃	5±1s