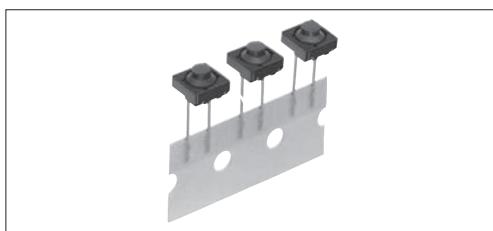


Varieties of 1mm, 1.2mm or 1.75mm-travel to support a wide range of applications



■ Typical Specifications

Items	Specifications
Rating (max.)	5mA 12V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	1kΩ max.

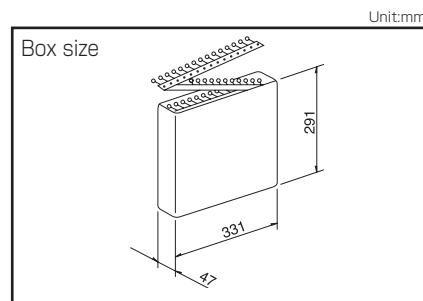
■ Product Line

Product No.	Operating force	Operating direction	Travel (mm)	Operating life (5mA 5V DC)	Rubber color	Height	Minimum order unit (pcs.)	
							Japan	Export
SKPDALD010	0.78N	Top push	1	500,000 cycles	Light gray	h=5mm	800	800
SKPDAMD010	1.18N				Light blue			
SKPDACD010	2.45N		1.2	100,000 cycles	Blue	h=5.5mm		
SKPDAFD010	2.94N		1.75		Gray	h=6.1mm		

■ Packing Specifications

Radial taping

Number of packages (pcs.)			Export package measurements (mm)
1 box	1 case / Japan	1 case / export packing	
800	8,000	8,000	354×606×272

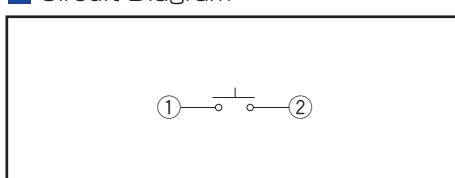


■ Dimensions

Unit:mm

Style	PC board mounting hole dimensions (Viewed from switch mounting face)
<p>Front View: □7.8, Ø3.5, 3 mm Side View: 1, 1.2, 1.75 mm, 3 mm</p>	<p>PC board mounting hole dimensions: 2-Ø1 hole, 5 mm</p>

■ Circuit Diagram



Note

Using a 1.6mm thick PC board is recommended.

Refer to P.259 for soldering conditions.

Type		Soft Feeling Type									
		Snap-in			Surface Mount			Radial			
Series		SKEG	SKEG	SKPF	SKPM	SKPG	SKPR	SKPL	SKPD		
Photo											
Features		—	—	High operation force Long travel	Low contact resistance	—	High operation force Low contact resistance	Round terminal Low contact resistance	—		
Water-proof		—	—	—	—	—	—	—	—		
Dust-proof		—	—	—	—	—	—	—	—		
IP standard		—	—	—	—	—	—	—	—		
Operating direction	Top push	●	—	●	●	●	●	●	●		
	Side push	—	●	—	—	—	—	—	—		
Dimensions (mm)	W	□6	7.5	8	5.9	6.6	7.5	ø6.45	□7.8		
	D		9.9	9	6	6.3	7.8				
	H	See the relevant pages for respective product descriptions	7.3	10	5		6.5	5	See the relevant pages for respective product descriptions		
Contact		Carbon			Silver	Carbon	Silver		Carbon		
Operation force coverage	to 1N	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓		
	1N to 2N	↓	↓	↑↓	↓	↓	↓	↓	↑↓		
	2N to 3N	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓		
	3N to 4N	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓		
	4N to 5N	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓		
Travel (mm)		1		See the relevant pages for respective product descriptions	1.3		1	1.3	See the relevant pages for respective product descriptions		
Ground terminal		—	—	—	—	—	—	—	—		
Operating temperature range		-20°C to +70°C			-40°C to +90°C						
Automotive use		—	—	●	●	●	●	●	●		
Life Cycle											
Electrical performance	Rating (max.) (Resistive load)	5mA 12V DC			50mA 16V DC	5mA 12V DC	50mA 16V DC		5mA 12V DC		
	Rating (min.) (Resistive load)	10µA 1V DC									
	Insulation resistance	100MΩ min. 100V DC 1min.							50MΩ min. 100V DC 1min. SKPDFAF: 100MΩ min. 100V DC 1min.		
	Voltage proof	250V AC 1min.							100V AC 1min. SKPDFAF: 250V DC 1min.		
Durability	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									
	Lifetime	Shall be in accordance with individual specifications.									
Environmental performance	Cold	-30°C 96h		-40°C 96h	-40°C 1,000h	-40°C 96h	-40°C 1,000h		-40°C 96h		
	Dry heat	80°C 96h		90°C 96h	90°C 1,000h	90°C 96h	90°C 1,000h		90°C 96h		
	Damp heat	60°C, 90 to 95%RH 96h			60°C, 90 to 95%RH 1,000h	60°C, 90 to 95%RH 96h	60°C, 90 to 95%RH 1,000h		60°C, 90 to 95%RH 96h		
Page		251		253	254	255	256	257	258		

W : Width. The most outer dimension excluding terminal portion.
D : Depth. The most outer dimension excluding terminal portion.
H : Height. The minimum dimension if there are variances.

ACT Switch™ Soldering Conditions	259
ACT Switch™ Cautions	260

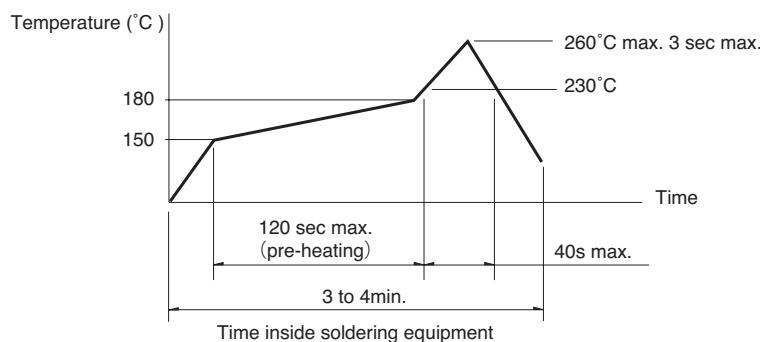
Notes

1. The automotive operating temperature range to be individually discussed upon request.
2. ● Indicates applicability to all products in the series, while ○ indicates applicability to some products in the series.

Condition for Reflow

Available for Surface Mount Type.

1. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 CA (K) or CC (T) at solder joints (copper foil surface).
A heat resistive tape should be used to fix thermocouple.
2. Temperature profile



Notes

1. The above temperature shall be measured of the top of switch. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the material, size, thickness of PC boards and others.
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.

Conditions for Auto-dip

Available for Snap-in Type and Radial Type.

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKHH, SKPD Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 110°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKQJ, SKQK, SKEG Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	45s max.
Soldering temperature	255°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

Notes

1. Prevent flux penetration from the top side of the TACT Switch™.
2. Switch terminals and a PC board should not be coated with flux prior to soldering.
3. The second soldering should be done after the switch is stable with normal temperature.
4. Use the flux with a specific gravity of min 0.81.
(EC-19S-8 by TAMURA Corporation, or equivalents.)

Manual Soldering

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

SKHH, SKHW, SKRG, SKPD Series

Items	Condition
Soldering temperature	360°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

SKTD, SKTG, SKQJ, SKQK, SKEG Series

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	20W max.