Heavy operating force, soft feeling type achieves low contact resistance through adopting metal contacts



Typical Specifications	
Items	Specifications
Rating (max.)	50mA 16V DC
Rating (min.)	10µA 1V DC
Initial contact resistance	100mΩ max.
Travel (mm)	1

Product Line

Product No. Operating force	Operating force	Operating direction	Operating life	Minimum order unit (pcs.)	
TTOUGETNO.			(1mA 5V DC)	Japan	Export
SKPRAAE010	5N	Top push	100,000 cycles	1,050	1,050

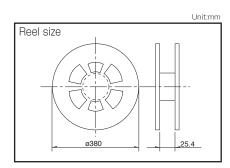
Packing Specifications

For reels of 330mm diameter, please inquire.

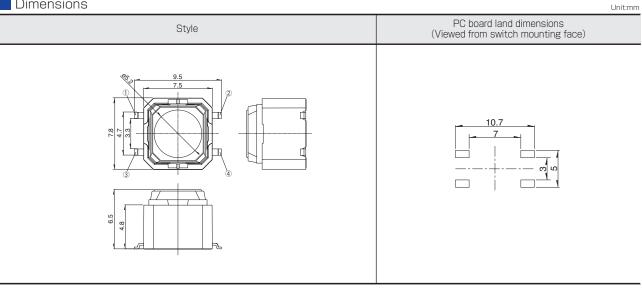
Taping

Note

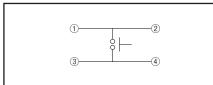
Number of packages (pcs.)			Tape width	Export package	
1 reel	1 case / Japan	1 case / export packing	(mm)	measurements (mm)	
1,050	6,300	6,300	24	401×401×214	



Dimensions



Circuit Diagram



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TACT Switch[™] List of Varieties

	Turne				Soft Fee	ling Type			
	Туре		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	_
W	/ater-proof	_	_	_			_		
[)ust-proof	_	_	_	_	_	_		
IF	o standard	_	_	_			_		_
Operatin	g Top push	•	_	•	•	•	•	•	•
direction		_	•	_	_	_	_		
	W		7.5	8	5.9	6.6	7.5		
Dimensio (mm)	ns D	- 06 -	9.9	9	6	6.3	7.8	φ6.45	7.8
(11111)	Н	See the relevant pages for respective product descriptions	7.3	10	Ę	5	6.5	5	See the relevant p respective product o
	Contact		Carbon	1	Silver	Carbon	Sil	ver	Carbo
Operatio force coverag	2N to 3N	Ţ	Ĵ	Ţ	1	ţ	\$	1	Ì
Tr	avel (mm)	1		See the relevant pages for respective product descriptions	1.	3	1	1.3	See the relevant (respective product of
Gro	und terminal	_	_	_	_	_	_		
Operat	ng temperature range	−20°C to) +70℃		-40°C to +90°C			1	1
Aut	omotive use	_	_	•	•	•	•	•	•
l	_ife Cycle				3	3	3	2	
	Rating (max.) (Resistive load)	Ę	5mA 12V DC	;	50mA 16V DC	5mA 12V DC		mA DC	5mA 12V E
Electrical	Rating (min.) (Resistive load)				10µA	1V DC			
performance	Insulation resistance			100M	Ω min. 100V D0	C 1min.			50MΩ min. 100V SKPDAF: 100N 100V DC 1
	Voltage proof		250V AC 1min.						100V AC 1 SKPDAF: 250V
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						
Durability -	Lifetime		Shall be in accordance with individual specifications.						
	Cold	-30°C	96h	-40℃ 96h	-40℃ 1,000h	-40℃ 96h	-40°C	1,000h	-40°C
Environmental performance	Dry heat	80°C :	96h	90°C 96h	90℃ 1,000h	90°C 96h	90°C 1	1,000h	90°C 9
	Damp heat	60°C,	90 to 95%RH	H 96h	60°C, 90 to 95%RH 1,000h	60℃, 90 to 95%RH 96h	60°C, 90 to 9	5%RH 1,000h	60°C, 90 95%RH
	Dama	25	1	252	254	255	256	257	250

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.

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TACT Switch[™] Soldering Conditions · · · · · · TACT Switch[™] Cautions · · · · · ·

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Notes

Page

1. The automotive operating temperature range to be individually discussed upon request.

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2. Indicates applicability to all products in the series, while O indicates applicability to some products in the series.

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Soft Feeling

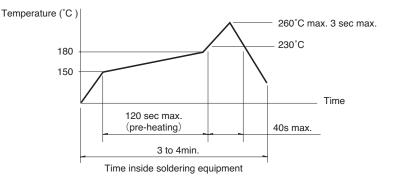




Condition for Reflow

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 $\ensuremath{\mathbb{C}}$ 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

	<u> </u>
Items	Condition
Soldering temperature	350°C max.
Duration of soldering	Зs 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	Зs max.
Capacity of soldering iron	20W max.

