

Soft feeling with metal contact provides low contact resistance



TACT Switch™

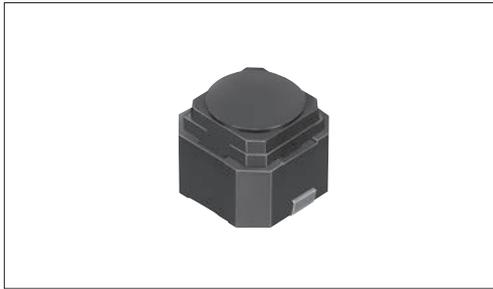
Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type



### Typical Specifications

Items	Specifications
Rating (max.)	50mA 16V DC
Rating (min.)	10 $\mu$ A 1V DC
Initial contact resistance	100m $\Omega$ max.
Travel (mm)	1.3

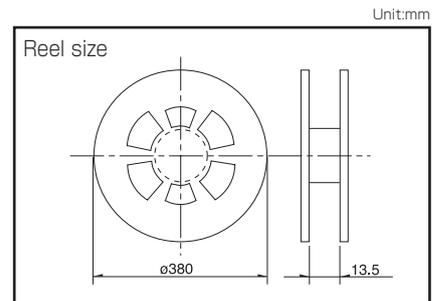
### Product Line

Product No.	Operating force	Operating direction	Operating life (1mA 5V DC)	Minimum order unit (pcs.)	
				Japan	Export
<b>SKPMAME010</b>	1.57N	Top push	100,000 cycles	2,000	2,000
<b>SKPMANE010</b>	1.96N				
<b>SKPMAPE010</b>	2.45N				
<b>SKPMBHE010</b>	3N				

### Packing Specifications

Taping

Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case / Japan	1 case / export packing		
2,000	20,000	20,000	12	395×395×205



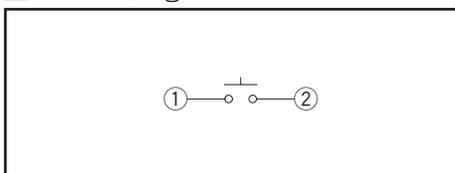
### Note

For reels of 330mm diameter, please inquire.

### Dimensions

Style	PC board land dimensions (Viewed from switch mounting face)

### Circuit Diagram



Refer to P.265 for soldering conditions.

# TACT Switch™

## List of Varieties

TACT Switch™

Sharp Feeling

Soft Feeling

Snap-In Type

Surface Mount Type

Radial Type

Type		Soft Feeling Type								
		Snap-in			Surface Mount				Radial	
Series		SKEG	SKEG	SKPF	SKPS	SKPM	SKPG	SKPR	SKPL	SKPD
Photo										
Features		—	—	High operation force Long travel	Low contact resistance	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	φ6.45	□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	1N max.	↕	↕	↕		↕	↕		↕	↕
	1N to 2N	↕	↕	↕		↕	↕		↕	↕
	2N to 3N			↕	↕	↕	↕		↕	↕
	3N to 4N				↕	↕	↕		↕	↕
Travel (mm)		1		See the relevant pages for respective product descriptions	1.05	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. SKPDAF: 100MΩ min. 100V DC 1min.
	Voltage proof	250V AC 1min.								100V AC 1min. SKPDAF: 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	-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	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	
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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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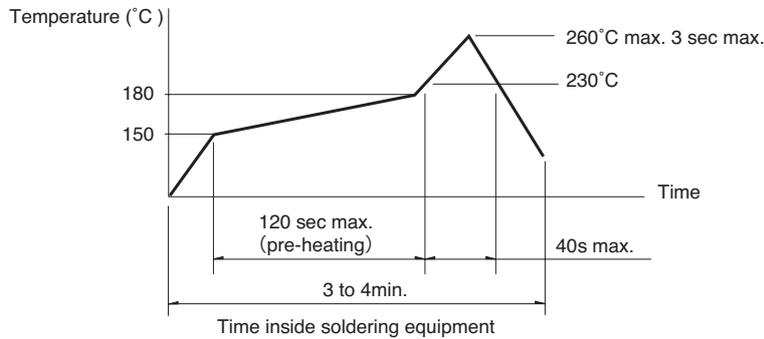
### Notes

- The automotive operating temperature range to be individually discussed upon request.
- Indicates applicability to all products in the series.

## Condition for Reflow

Available for Surface Mount Type.

1. Temperature measurement: Thermocouple  $\phi$  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.

## 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.

### 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.)

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ALPS:

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