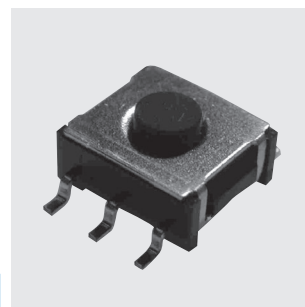


SMT1

Surface Mount Tactile Switches

Washable



RoHS Compliant

■ Features

1. Compatible With Lead-Free, Reflow Soldering

Heat-resistance resin for lead-free soldering.

2. Washable

3. 180° Symmetric Terminal Pin Layout.

4. Anti-Static Electricity

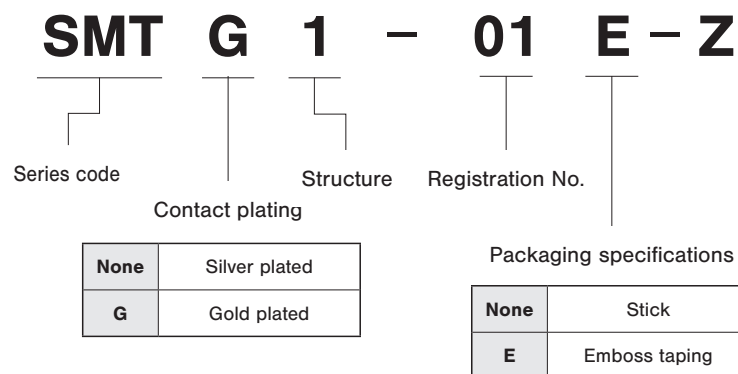
Ground terminal is provided to prevent damage to element caused by static electricity.

5. Metal contact for sharp tactile feel.

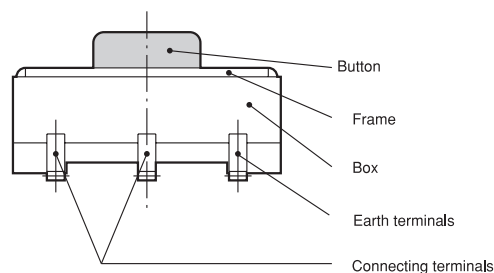
■ Specifications

Contact plating		Silver plated	Gold plated
Rating	Max.	1 VA Max. (50 mA max.48 VDC max.)	
	Min.	0.5 mA 20 mVDC	10 μ A 20 mVDC
Initial contact resistance		100 m Ω Max. [1.5 mA 200 μ VAC at 1.96 N {200 gf} force]	
Dielectric strength		250 VAC 1 minute	
Insulation resistance		100 M Ω min. (100 VDC)	
Electrical life		1,000,000 operations	
Stroke		0.5 \pm 0.3 mm	
Operating force		1.96 \pm 0.98 N	
Operating temperature range		-25 \sim +70°C	
Storage temperature range		-40 \sim +70°C	

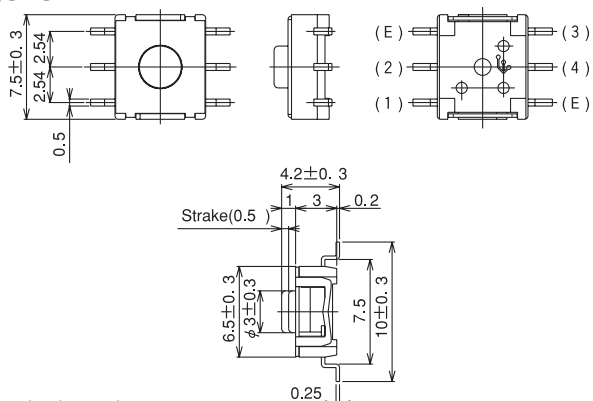
■ Part Numbering



■ Structure



SPST



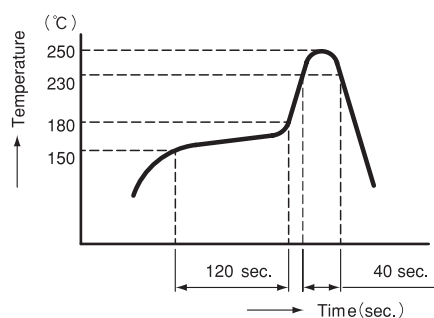
Terminal numbers are not shown on the switch.

■ Table of Part Numbers



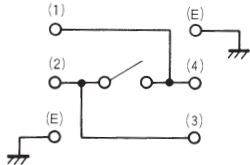
Contact plating	Part No.
Silver plated	SMT1-01-Z SMT1-01E-Z
Gold plated	SMTG1-01-Z SMTG1-01E-Z

■ Soldering Specifications

- (1) Manual Soldering
Device : Soldering iron
① $380^{\circ}\text{C} \pm 10^{\circ}\text{C}$; 3 ± 0.5 seconds
- (2) Reflow Soldering
Device : Inline or batch system

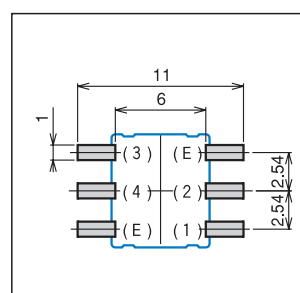


- Apply reflow soldering only once

Part No.	Switching function		Circuit diagrams
			
SMT1-01-Z SMTG1-01-Z	OFF	(ON)	
Connecting terminals	_____	(2) _____ (1) (3) _____ (4)	

(ON) : Momentary

■ Pad Layouts



Terminal (E) to be connected to Ground. Terminal (E) is connected to the metal frame.

■ Flux Cleaning

- (1) Solvent: Fluorine or Alcohol type Cleaning with other solvents or water is not possible.
- (2) Cleaning after soldering should be done after the terminal temperature falls to 90°C or below, or after leaving the switch for five minutes or longer at room temperature. Cleaning temperature: 43°C, max.
- (3) Do not use ultrasonic cleaning.

■ Packaging Specifications

Stick specification	Emboss taping specification
<p>50 pcs/stick</p> <p>SMT-01-Z SMTG1-01-Z</p> <p>$\varnothing=400$</p>	<p>1,000 pcs/reel</p> <p>SMT-01-E SMTG1-01-E</p>

Minimum packaging quantity for reel packaging is 1,000pcs per reel.

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[Nidec:](#)

[SMT1-01E-Z](#) [SMT1-01-Z](#) [SMTG1-01E-Z](#) [SMTG1-01-Z](#)