

DATA SHEET

SUNGMUN CODE : NSI-10S-TR

DESCRIPTION : SLIDE SWITCH

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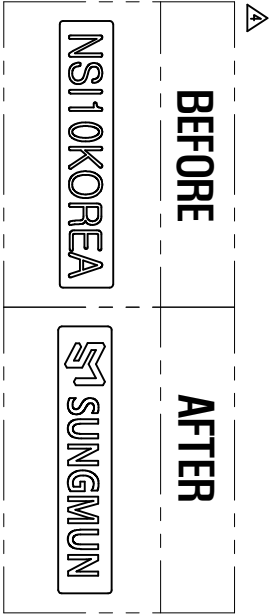
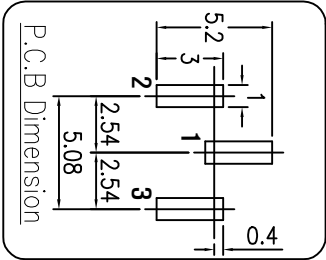
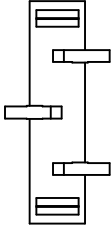
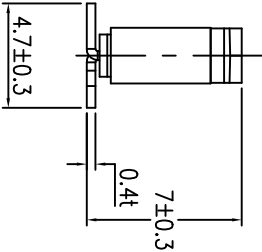
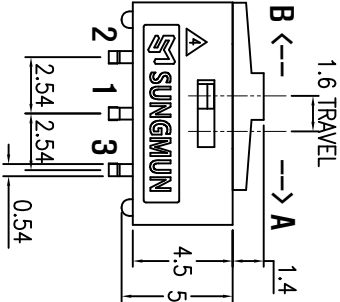
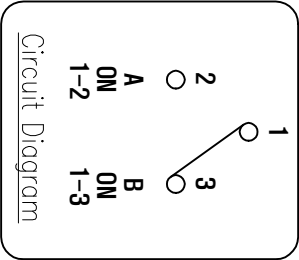
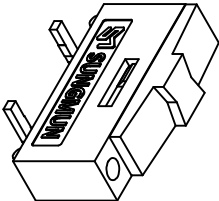
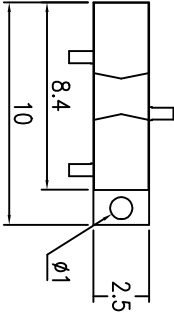
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REV. NO.	DATE	REVISION	DR	CH	APP
△	22.12.06	CHANGE THE MARKING	H.S LEE	K.N KIM	W.J LEE
△	23.10.13	DIM ISO-2768-1m tolerance applied	H.S LEE	K.N KIM	W.J LEE

SPECIFICATION

1. Rating : DC12V 0.5A~24V 0.3A.
2. Contact Resistance : 30mΩ Max.
3. Travel : 1.6mm.
4. Operating Force : 250gf ± 150gf.
5. Life Cycle : 2,000 Cycle (with load).
6. Packing : 200pcs Vinyl Bag / 700pcs Reel Packing



MINI SLIDE SWITCH									
DRAW/DESIGNED		CHECKED		APPROVED				TITLE	
J.S YANG		W.J LEE		K.I LEE		± D&A		MODEL NO.	
2021-10-15		2021-10-15		2021-10-15		UNIT mm		SIZE 3:1	
DIN ISO-2768-1m								DRAW NO.	
Ranges		0.5-3		3-6		6-30		30-120	
Tolerance		±0.1		±0.1		±0.2		±0.3	
								±0.5	
 SUNGMUN ELECTRONICS CO.,LTD									
NSI-10S								REV.	
NSI-10S-05								05	

1. Electrical Characteristics :

- 1.1 Rating : AC, DC 12V 0.5A~24V 0.3A (Minimum current: 1mA)
- 1.2 Contact Resistance : Max 30 mΩ
- 1.3 Insulation Resistance : Min 10,000 MΩ at DC 500V
- 1.4 Withstanding Voltage : 1min at AC 500V

2. Mechanical Characteristics :

- 2.1 Operating Force : 250gf ± 150gf
- 2.2 Travel : 1.6mm
- 2.3 Insulator :
 - 2.3.1 Case : Glass Fiber resin
 - 2.3.2 Slide : Glass Fiber resin
- 2.4 Terminal : Nickel, Gold Plate

3. Life Test :

- 3.1 Test Condition : Operations at a rate of 15-20 cycles in 1 minute
 - 3.1.1 With load : 2,000 cycles
 - 3.1.2 Without load : 10,000 cycles
- 3.2 Operating Force : With +40%, -40% of Initial Value
- 3.3 Contact Resistance : Max 200mΩ

4. Environmental Characteristics :

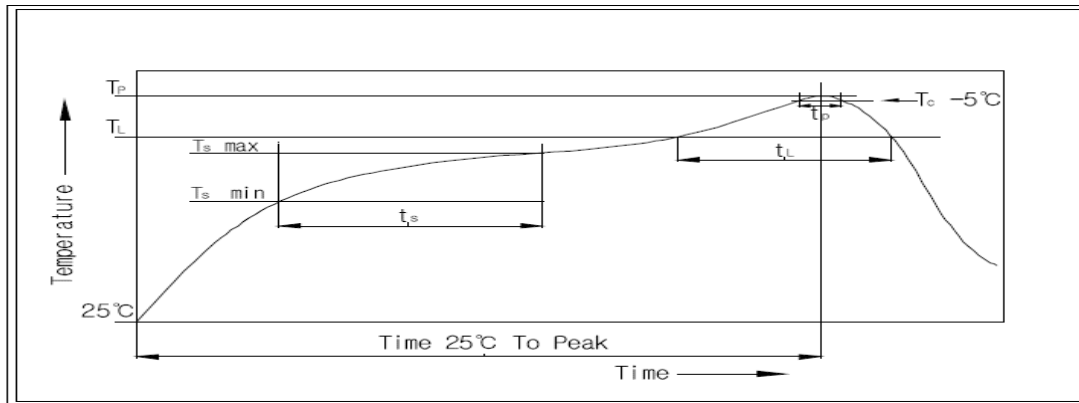
- 4.1 Operating Temperature : -40°C to +85°C
- 4.2 Storage Temperature : -40°C to +85°C
- 4.3 Humidity Test :
 - 4.3.1 Test Conditions : Measured 1hour after exposure to ambient
After 96hours exposure at 40±2°C, 90-95% R.H
 - 4.3.2 Insulation Resistance : Min 100MΩ, at DC 500V
 - 4.3.3 Withstanding Voltage : 1min at AC 250V

5. Solder Conditions :

5.1 Hand Solder : 3~4 sec. at 350°C (Dipping type)

5.2 Wave Solder : 5 sec. at 260°C (Dipping type)

5.3 Reflow Solder (SMD type)



5.3.1 Condition for Soldering

Profile Feature	Pb-Free Assembly
Average Ramp-UP Rate($T_s \text{ max}$ to T_P)	3°C/second max
Preheat - Temperature Min($T_s \text{ min}$) - Temperature Max($T_s \text{ max}$) - Time ($t_s \text{ min}$ to $t_s \text{ max}$)	150°C 200°C 60-180seconds
Time maintained above: - Temperature (T_L) - Time (t_L)	217°C 60-150seconds
Peak/Classification Temperature(T_P)	260°C +0°C/ -5°C
Time within 5°C of actual Peak Temperature(T_P)	5~10 seconds
Ramp-Down Rate	6°C/sec max
Time 25°C to Peak Temperature	8 minutes max

REV NO.	REVISION		DR	CH	APP
△	23.10.13	Recitation of drawings for unification of drawing formats	H.S LEE	K.N KIM	W.J LEE

Technical drawing of a mechanical part, showing a top view and a cross-section view (B-B).

Top View Dimensions:

- Overall Width: 24.00 ± 0.3
- Overall Height: 12.00 ± 0.10
- Distance from Center to Right Edge: 11.50 ± 0.10
- Distance from Top Edge to First Hole: 2.00 ± 0.10
- Distance between Holes: 4.00 ± 0.10 (Pitch)
- Cumulative Tolerance on Pitch: ± 0.2
- Hole Diameter: $\varnothing 1.50 \pm 0.10$
- Central Hole Diameter: $\varnothing 1.50 \pm 0.10$

Cross-Section View (B-B) Dimensions:

- Top Width: 10.30 ± 0.10
- Bottom Width: 8.90 ± 0.10
- Height: 0.40 ± 0.10
- Feature: 7° TYP.

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and tolerances. The drawing includes a cross-section view with a central hole and a threaded hole. Dimensions are given in millimeters with tolerances. Key dimensions include: overall width 3.60 ± 0.10 , overall height 5.20 ± 0.10 , hole diameter 2.80 ± 0.10 , and hole depth 0.40 ± 0.10 . A section line A-A is indicated. The drawing is labeled "STYP." (Standard).

	TYPE	COLOR	HUB	SIZE
REEL	PLASTIC	BLACK	80	330
SHEET	BLACK 24MMX0.4	PACKING QUANTITY	700/REEL	

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