

SPECIFICATION

Contact Rating:50 mA @ 12VDC

Electrical life : 1,000,000 cycles

Mechanical life : 1,000,000 cycles min

Position Travel : 0.25±0.1

Insulation Resistance: > 100MΩ DC250V

Withstand Voltage: AC250V 1 minute

Contact Resistance: < 100mΩ

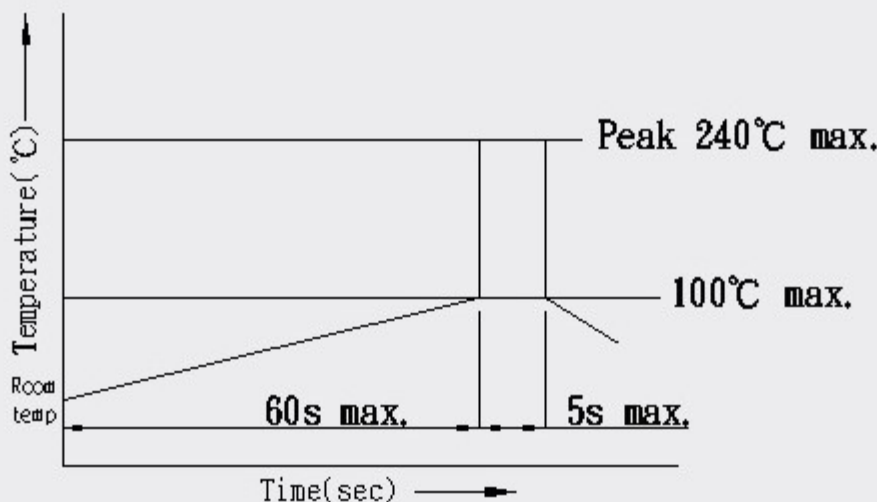
Ambient Temper.: -25℃ to70℃

Operating Force: 80±20 gf; 120±30 gf; 180±50 gf

Soldering Process : Hand soldering : Use a soldering iron of 30 watts,controlled at 380℃ approximately 3 seconds while applying solder.

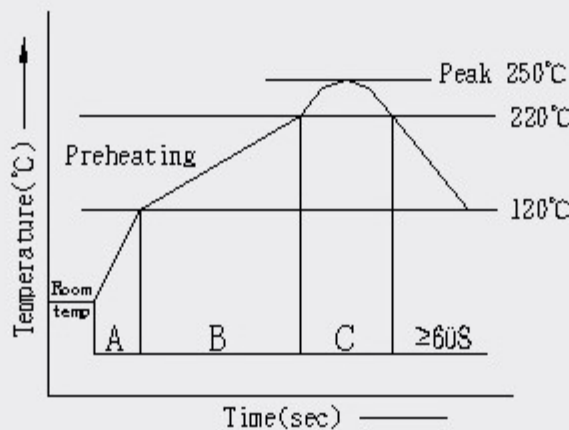
Wave soldering: When applying wave soldering, the peak temperature of the wave Oven should be set to 260℃max. Condition for soldering (Wave & Non-washable Type) Temperature Profile: (Figure 1)

Reflow soldering: When applying reflow soldering, the peak temperature of the reflow Oven should be set to 250℃max. Condition for soldering (Reflow & Non-washable Type) Temperature Profile: (Figure 2)



Items	Condition
Preheating temperature	Ambient temperature of the soldered surface of PC board.100℃ max.
Preheating time	60s max.
Soldering temperature	240℃ max.
Continuous dipping time	5s max.
Number of soldering	2 times max.

Wave soldering (Figure 1)



	Components size		Unit
A	Temp. rise gradient	40S	sec
B	Heating time	60-120S	sec
	Heating temperature	120-220℃	℃
C	Time over 220℃	60-90S	sec
	Peak temperature	250	℃
	Peak-temp. hold time	moment	sec
	Soldering	1	times

Reflow soldering (Figure 2)

HOW TO ORDER

Series

TSE2

Actuator Button

01= 01 Type

Terminal type

P = PCB terminal
M=SMT

Base type

A / B

Operating Force

80=80±20 (gf)
120=120±30 (gf)
180=180±50 (gf)

LED Color

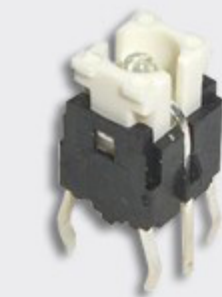
None=no LED
 R=red, G=green
 B=blue,Y=yellow
 W=white, RW=red/white
 RB=red/blu, RG=red/green
 BW=blue/white
 GB=green/blue
 YB=yellow/blue
 YG=yellow/green
 YW=yellow/white.

EXAMPLE:

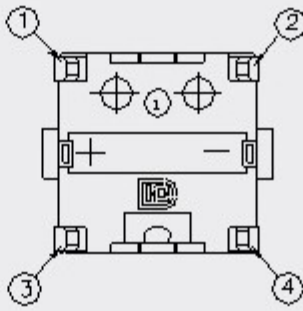
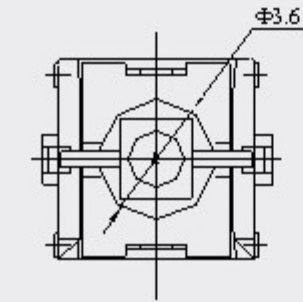
TSE2-01PA-80; TSE2-01PB-80; TSE2-01MA-80; TSE2-01MB-80

TERMINAL AND COVER OPTIONS

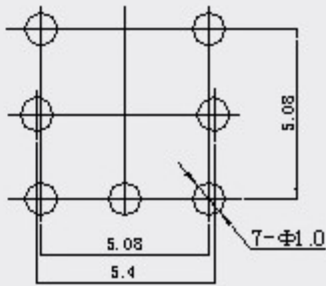
TSE2 Series TACT SWITCH



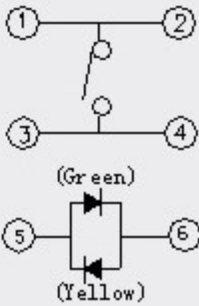
TSE2-01 PA- 00 - **



PATTERN DIMENSTONS



SCHEMATIC



PART NO.	Operating Froce	NOTE
TSE2-01PA-80-**-	80±20 gf	The“-**-”on behalf of LED Color Please see (HOT TO ORED)
TSE2-01PA-120-**-	120±30 gf	
TSE2-01PA-180-**-	180±50 gf	

LED Specifications:					
Color	VR	IF	Recommended Operating Current	VF	
Red	DC 5V	20mA	20mA	Nom 1.7V	Max 2.4V
Green	DC 5V	20mA	20mA	1.9V	2.4V
Yellow	DC 5V	20mA	20mA	1.9V	2.4V
Blue	DC 5V	20mA	20mA	3.0V	3.6V
White	DC 5V	20mA	20mA	3.0V	3.6V