

(WITH LED) 10mm SERIES TACT SWITCH

1. Pole-Position:1P1T, With LED.

2. Operation Temperature: -20°C~70°C

3. Rating: 12V DC 50mA4. Electrical Performance:

	Item	Test Conditions	Criteria	
4.1	Contact resistance	DC 1.5V 100mA by method of voltage drop.	100mΩ Max.	
4.2	Insulation resistance	DC 500V	100MΩ Min.	
4.3	Dielectric strength	AC 500V for 1 minute	Breakdown is not allowable	

5. Mechanical Performance:

	Item	Test Conditions	Criteria	
5-1	Operating force	Along operational direction to apply a static load	1 80 ±50gf	
3-1	Operating force	on top of the stem until it stops movement.		
		Along operational direction to apply a static load		
5-2	Full travel	on top of the stem. depress stem gradually unit it	0.2±0.1mm	
		stops movement.		
2			1. Terminal could be bent	
			but loosened terminal or	
			base frame broken are not	
5-3	Robustness of terminal	Any direction to apply a static load 200gf at end	allowable.	
		of terminal for 15 seconds, once for a terminal only.	2. Any damages on switch	
		Only.	construction are not allowable.	
			3. It should meet electrical	
			performance as item 4 stated.	
		Along operational direction, to apply a static load	Any damage on switch	
5-4	Robustness of actuator	on top of stem 2 Kgf to depress switch for 15	construction is not allowable	
		seconds.	except moving contact.	
5-5	Solderability	260±5°C in 3 seconds.	Coverage 75% Min.	

6. Soldering Heat Resistance

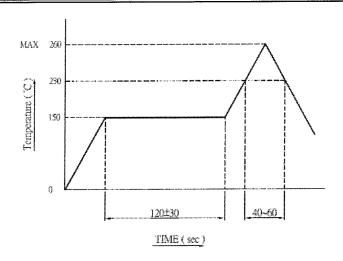
6-1. Manual solder: 350±5°C in 3 seconds.

6-2. Wave soldering: 260±5°C in 3 seconds.

6-3. Soldering by reflow:

					APPD.	CHKD.	DSGD.	DOCUMENT NO.:		
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7. Durability:

After 500,000 cycles (speed 15~20 cycles/MIN.)

without load life test:

7-1. Contact resistance : $200 \text{m} \Omega$ MAX.

7-2. Insulation resistance : DC 500V $10M\Omega$ MIN.

7-3. Dielectric strength: AC 500V for 1 minute.

7-4. Operating force : Within the range between $\pm 30\%$ of specification.

8. Environmental Performance

	Item	Test Conditions	Criteria		
			1. It should meet requirements of item 4 and 5.		
8.1	Cold	- 20°C±2°C for 96 hours	2. Mechanical performance should		
			remain to normal.		
			1. It should meet requirements of item 4 and 5.		
8-2	Dry heat	70°C±2°C for 96 hours	2. Mechanical performance should		
			remain to normal.		
			1. It should meet requirements of item 4 and 5.		
8-3	Damp heat	40°C±2°C 90% ~95%RH for 96 hours	2. Mechanical performance should		
			remain to normal.		

RoHS Compliance

					APPD.	CHKD.	DSGD.	DOCUMENT NO.: TSBL10SV-BS-G8.1R10-R-3M	
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