DATA SHEET 数据表

BONSDA CODE 代码	*	STP-1234A		
DESCRIPTION 描述	:	TACT SWITCH		
CUSTOMER APPROVAL 客户确认				
PART NO. 料号	<u>.</u>			
SIGNATURES ^{欲章}				

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1. Description:

This specification covers the requirements for single key switches which have no key top(Tact switches mechanical contact).

- 1-1 Operating Temperature Range : -40°C ~ +70°C (normal humidity, normal press)
- 1-2 Storage Temperature Range : -40°C ~ +70°C
- 1-3 Test Conditions:

Tests and measurements shall be made in the following standard conditions unless otherwise specified:

Normal temperature (temperature 5 to 35°C)

Normal humidity (relative humidity 45 to 85%)

Normal pressure (pressure 860 to 1,060 mbars)

In case any question arises from the judgment made, tests shall be conducted in the following conditions:

Temperature (20±2°C) Relative humidity (65±5%)

Pressure (860 to 1,060 mbars)

2. Rating:

2-1 Maximum Rating: 50 mA, DC 12V

3. Type of Actuation : Push - ON type

4. Contact Arrangement : 1 poles 1 throws (SPST)



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5. Electrical Characteristics

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
5-1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product.
5-2	Contact Resistance	Push force : (Operation force) x 2 Measurements shall be made with a 1kHz small current contact resistance.	100mΩ max.
5-3	Insulation Resistance	DC 100V for 1 minute. (Between terminals)	100 MΩ min.
5-4	Dielectric withstanding Voltage	AC 250V for 1 minute. (Between terminals)	There shall be no breakdown
5-5	BOUNCE	Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 operations per sec), Bounce shall be tested when "ON" and "OFF".	10ms max.



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6. Mechanical Characteristics

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
6-1	Operation Force	Push by recommended operating condition. Force Push force Return force Stroke	See outside drawing
6-2	Travel	Push by recommended operation condition. F = (Operation force) ×2 F Travel	0.25±0.1 mm
6-3	Stem strength	The maximum force to withstand a pull applied opposite to the direction of stem operation shall be measured.	0.5 kgf min
6-4	Stop Strength	A static load of 3 kgf shall be applied in the direction of stem operation for a period of 60 seconds.	No damage (Electrical and mechanical)
6-5	Soldering Test	Soldering area: t/2 of P.W.B thickness (P.W.B: t = 1.6) Soldering temperature: 260±5°C Soldering time: 5±1 sec	No damage (Electrical and mechanical)
6-6	Operation Life	Measurements shall be made following the test set forth below: 1) 50mA, 12V DC resistive load 2) Rate of operation: 2~3 cycles/ sec 3) Cycles of operation: See outside drawing.	1)As shown in item 5-3, 5-4, 6-2 2)Contact Resistance: 200mΩ max 3)Bounce: 20m sec max 4) Actuating force: ±30% initial force



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7. Environmental Characteristics

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
7-1	Moisture Resistance	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements. Are made: 1) Temperature: 60±2°C 2) Relative humidity: 90 to 95%	1)As shown in item 5-3, 5-4, 5-5, 6-1, 6-2 2)Contact Resistance: 200mΩ max
		3) Time : 96 hours Water drops shall be removed.	
7-2	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before T-2 Low measurements are made:	1)As shown in item 5-3, 5-4, 5-5, 6-1, 6-2 2)Contact Resistance: 200 mΩ max	
7-3	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made: 1)Temperature: 80°C ± 2°C 2)Time: 96 hours		1)As shown in item 5-3, 5-4, 5-5, 6-1, 6-2 2)Contact Resistance: 200mΩ max
7-4	Impact Shock Resistance	Measurements shall be made following the test set forth below: 1) Acceleration: 80G 2) Cycles of test: 3 cycles each in 6 directions, for a total of 18 cycles.	Item 5 Item 6-1, 6-2



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ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
7-5	Change of Temperature	Following 5 cycles of high temperature test. The sample shall be placed in normal temperature and humidity conditions for one hour before measurements are made. During this test, water drops shall be removed. 60°C 2h 1h 2h 1h Cycling: 1 cycle	1)As shown in item 5-3, 5-4, 5-5, 6-1, 6-2 2)Contact Resistance: 200mΩ max
7-6	Vibration Resistance	Measurements shall be made following the test set forth below: 1) Range of oscillation: 10 to 55Hz 2) Amplitude, peak to peak: 1.5mm 3) Cycle of sweep: 10-55-10Hz in a minute. 4) Mode of sweep: Logarithmically seep or uniform sweep. 5) Direction of oscillation: Three mutually perpendicular direction, including the direction of stem travel. 6) 2 hours each for a total of 6 hours.	Item 5 Item 6-1, 6-2
7-7	Salt Mist Test	Switch shall be checked after following test. 1) Temperature: 35±2°C 2) Salt solution:5±1 3)Duration of test: 48 hours	Without excessive rust or discoloration

8. This item is "RoHS" Compliant

BONSDA

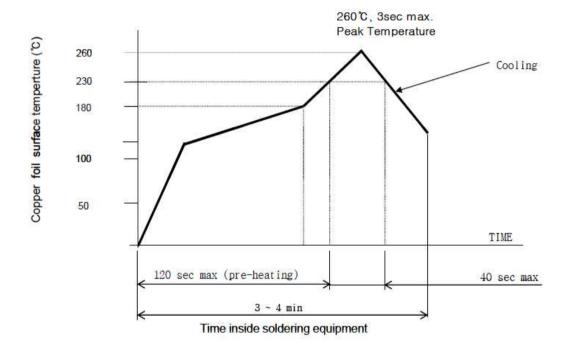
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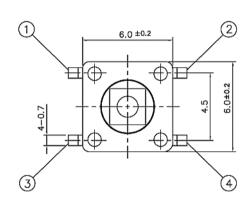
9. Reflow Soldering Conditions:

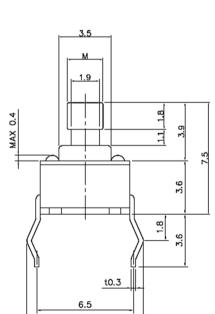
- 9-1 Preheat : Temperature on the copper foil surface should reach 180°C, 2±0.3 minutes after the P.W.B entered into the soldering equipment.
- 9-2 Soldering heat: Temperature on the copper foil surface should reach the peak temperature of 260°C within 40 seconds after the P.W.B entered into soldering heat zone.



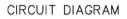
Temperature Profile

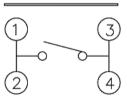
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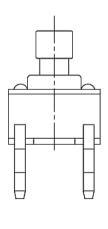




7.9 ±0.2







01	-		
NO.	DESCRIPTION		
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