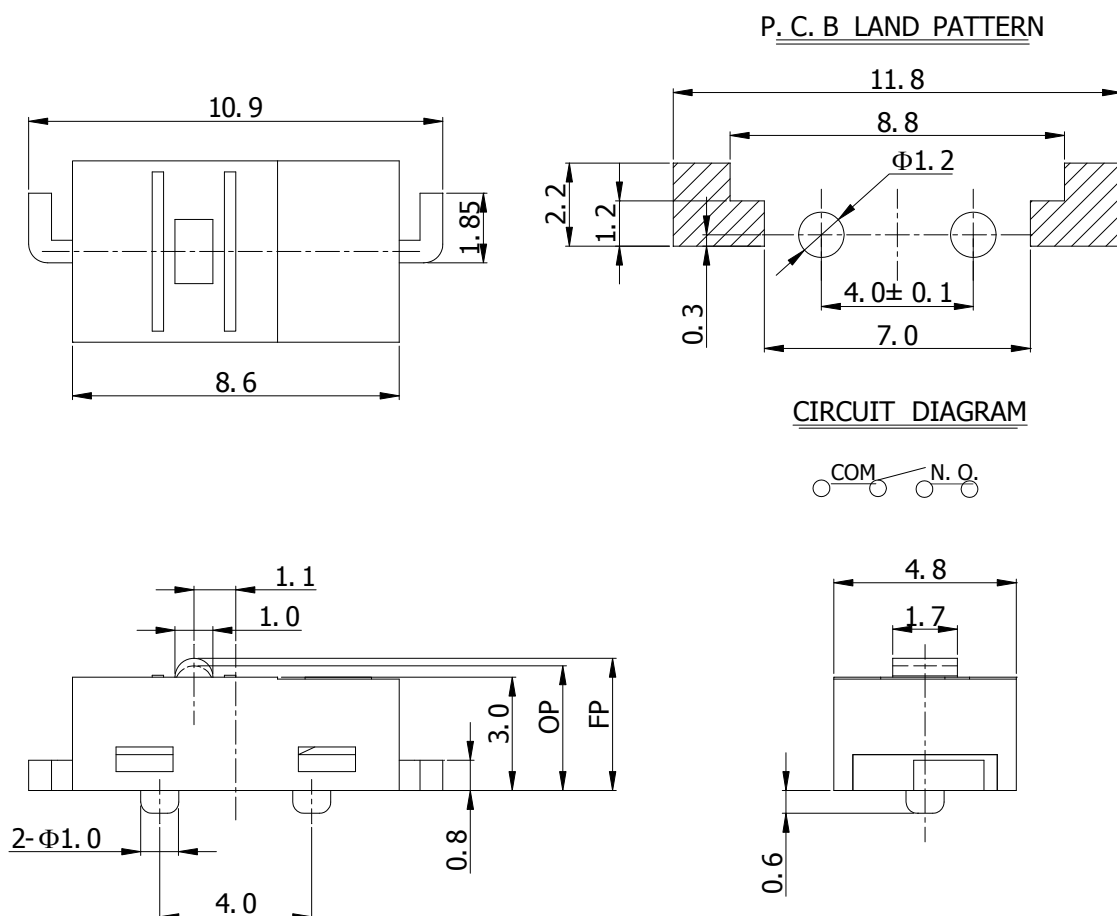


SWEETA PRODUCTS CORPORATION

RoHS

SWITCH TYPE	Micro Switch	Model No.	SDS030C-00M-70
1. Functional spec.			
1.1 Rated Voltage	DC48V/AC125V	1.6 Free Position	3.5± 0.3mm
1.2 Rated Current	0.1A	1.7 Operating Position	3.3± 0.3mm
1.3 Contact Resistance	≤ 300mΩ	1.8 Position Travel	
1.4 Operating Force	70± 20gf	1.9 Return Force	
1.5 Bounce Time		1.10	
2. Reliable Rating			
2.1 Mechanical Life	3,000,000 cycles	2.5 Soldering Technic	Hand/Reflow soldering
2.2 Electrical Life	3,000,000 cycles	2.6 Operating Temper	-25°C ~ +80°C
2.3 Insulation Resistance	≥ 100MΩ DC250 V	2.8 Ambient Humidity Used	<85%RH
2.4 Withstand Voltage	AC250V 1minute	2.8	

3. Dimension Drawing

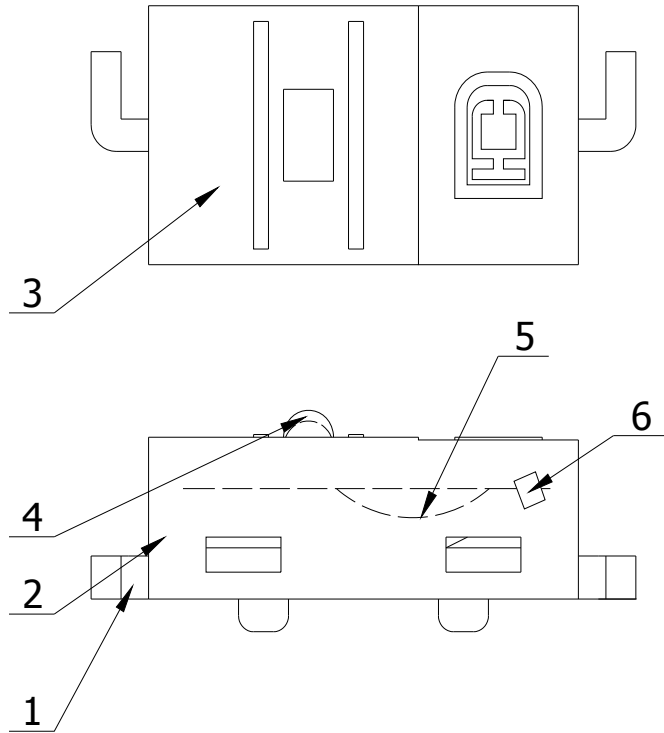


Revision	Description		Date
Drawing No.		C/0	Tolerance
Drawing Model.	SPECIFICATION OF STANDARD TYPE		Unit
Prepared	ZhenTong , Lai	Reviewed	YueXin , Li
Approved	SongYan, Chen	Effective date	20131128

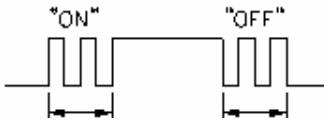
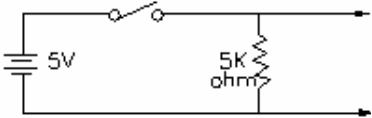
SWEETA PRODUCTS CORPORATION

SERIES	MICRO SWITCHES(SDS030C)	Issuance date:		20060801	
Document No.	DIC/PE030C	Edition	C	Page	1/5
Material list					
NO.	Part Name	Q'TY	Generic Class	SGS No. SGS	
1	Terminal	2	C2680		
2	Base	1	Nylon		
3	Case	1	Nylon		
4	Button	1	Nylon		
5	Spring Plate	1	C1720		
6	Contact	1	Silver alloy		

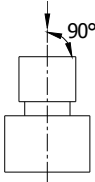
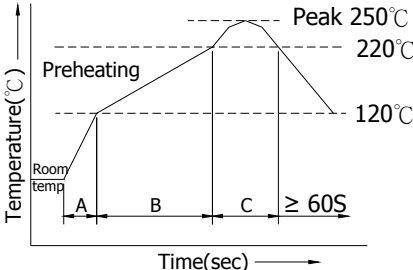
Structure chart:



SWEETA PRODUCTS CORPORATION

SERIES		MICRO SWITCHES(SDS030C)		Issuance date:		20060801		
Document No		DIC/PE030C		Edition		C	Page	2/5
1、General:								
1.1 Switch rating:		DC48V 0.1A/AC125V 0.1A1.2Operating						
1.2 temperature range		-25℃~80℃						
1.3 Preservative temperature range		-30℃~85℃						
1.4 Storage humidity range		<85%RH						
2.Performance								
2.1 Electrical characteristics								
Items		Test conditions					Criteria	
2.1.1	Contact resistance	Applying a static load twice the operating force to the button, measurements shall be made between the terminals. Measurement shall be made with a stabilization contact resistance meter for 2 mΩ precision under the condition which a voltage of DC5V and a current of 0.1A shall be applied between the terminals.					Refer to individual product drawing	
2.1.2	Insulation resistance	Spec. voltage (Refer to 2.3 item of spec. drawing) is applied between each pair of terminals and between the terminal and the metal frame for one minute. Measurement shall be made with a test instrument of insulation resistance under the condition which a voltage of spec. voltage is applied between the terminals.					Refer to individual product drawing	
2.1.3	Dielectric withstand in voltage	Spec. voltage (Refer to 2.4 item of individual product drawing) shall be applied across terminals and frame for one minute.					There shall be no breakdown	
2.1.4	Bounce	<p>Lightly striking the center of the button at a rate encountered in normal use (3 to 4 operating per sec.) bounce shall be tested at “ON” and “OFF”.</p> <div></div>					5ms max	

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SERIES		MICRO SWITCHES(SDS030C)		Issuance date:		20060801																																			
Document No.		DIC/PE030C		Edition		C	Page	3/5																																	
Items		Test conditions						Criteria																																	
3.Mechanical characteristics																																									
3.1	Free Position	Position of switch plunger or actuation when on external force is applied.						Refer to individual product drawing																																	
3.2	Operating Position	Position of switch plunge or actuator at which point contacts snap from normal to operated position. Note that the case of flexible of adjustable actuators.						Refer to individual product drawing																																	
3.3	Operating Force	Placing the switch such that the direction of switch operation is vertical, and then gradually increasing the load applied to the button, the maximum load for the button to come to operating position shall be measured.						Refer to individual product drawing																																	
3.4	Terminal Strength	Placing the switch such that the direction of switch operation is vertical, a static load of 1kgf Max shall be applied to the tip of the terminal in the direction of operation for one minute.						There shall be no sign of damage mechanically and electrically.																																	
3.5	Button Strength	Placing the switch such that the direction of switch Operation is vertical, a static load of 1kgf Max shall be applied to the center of the button in the direction of button operation for one minute.																																							
4. Soldering characteristics																																									
4.1	Hand soldering	Use a soldering iron of 30 watts , controlled at 350~360℃ approximately 3 seconds while applying solder.					(1)A new uniform coating of solder shall cover a minimum of 90% of the surface being immersed. (2)There shall be no defects in appearance or in the mechanical functions.																																		
4.2	Reflow soldering	<p>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</p>  <table border="1" data-bbox="528 1794 963 2031"><thead><tr><th></th><th>Components size</th><th></th><th>Unit</th></tr></thead><tbody><tr><td>A</td><td>Temp. rise gradient</td><td>40S</td><td>sec</td></tr><tr><td>B</td><td>Heatingtime</td><td>60-120S</td><td>sec</td></tr><tr><td></td><td>Heatingtemperature</td><td>120-220℃</td><td>℃</td></tr><tr><td></td><td>Time over 220℃</td><td>60-90S</td><td>sec</td></tr><tr><td>C</td><td>Peak temperature</td><td>250</td><td>℃</td></tr><tr><td></td><td>Peak-temp.hold time</td><td>3</td><td>sec</td></tr><tr><td></td><td>Soldering</td><td>1</td><td>times</td></tr></tbody></table>						Components size		Unit	A	Temp. rise gradient	40S	sec	B	Heatingtime	60-120S	sec		Heatingtemperature	120-220℃	℃		Time over 220℃	60-90S	sec	C	Peak temperature	250	℃		Peak-temp.hold time	3	sec		Soldering	1	times	There shall be no defects in appearance or in the mechanical functions.		
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SERIES		MICRO SWITCHES(SDS030C)	Issuance date:		20060801	
Document No.		DIC/PE030C	Edition	C	Page	4/5
Items		Test conditions			Criteria	
5. Durability characteristic:						
5.1	Mechanical life	(1) Without loading (2) Operating speed : 120 cycles/minute (3) Push force : maximum value of operating force twice (4) Life: 3,000,000 cycles			After test: (1)Contact resistance: 1 ohm Max. (2)Insulation resistance: 10M ohm Min. (3)Bounce: 5m sec. Max. (4)Withstand voltage: AC250V, 1 minute (5)Operating force: 30% of initial value (6)There shall be no defects in appearance or in the mechanical functions.	
	Electrical life	(1) Operating speed : 10 cycles/minute (2) Push force : maximum value of operating force twice (3) which the load of DC48V 0.1A, Life: 3,000,000 cycles				
6. Special Requirements						
6.1 Hazardous Substance Management: Follow environmental requirements: Hazardous Substance, DIC/WI/G506.						
7. Marks explanation						
7.1 There should be trademark on case.						
8. Packing explanation						
8.1 1000 pcs for one bag, 4 bags for one small box, 6 small boxes for one big box.						
9.Quantity records of delivered goods						
9.1 Package boxes or package bags should be attached labels or identifiers of Model No., Quantity and Quality Pursuing No. 9.2 There shall be quality records of inspection and test in package boxed.						

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SERIES	MICRO SWITCHES(SDS030C)	Issuance date:		20060801	
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10. Application Notes:					
10. 1 All parts of the switch can not be dissolved before soldering.					
10. 2 Switches can not be blown with air gun or cleaned with a solvent after soldering.					
11. Incoming inspection declaring:					
11. 1 You must comply with the following principles in the process of the incoming inspecting and using our products, if not, we won't be liable for any damages from it.					
11. 2 The requirement of the incoming inspection must meet the product's specification that have been affirmed and signed by you. If the following things appear in the process of the incoming inspection, the use is restricted, please feed back us in time ,we will take back of all.					
11. 3 The products that are attached or sticked by the unqualified labels;					
11. 4 In the process of the incoming inspection, he following main function parameters must be checked and they must meet the specification. If the sum of the badness rate is more than 1% in the process, the use is restricted, please feedback us in time, we will take back of all.					
①Operating Force: (Refer to individual product drawing)					
②Pre-travel: (Refer to individual product drawing)					
③Initial Contact Resistance: (Refer to individual product drawing)					
④Soldering ability: $235 \pm 5^{\circ}\text{C}/3\text{S}$,the covering rate of tin is more than 90%;					
⑤Function and action: the operation that the direction of switch operation is vertical with the up-surface of button isn't disabled;					
11. 5 If the serious packaging disrepair of products appears in the process of the incoming inspection, please refuse accepting them and return them to us directly.					
11. 6 Operating requirement: the direction of switch operating is vertical with the up-surface of button;					
11. 7 If your incoming inspection is careless and it arose that the badness rate of your producing process is more than 1%,we won't be liable for the damage.					