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| SHENZHEN XIEJIA ELECTRONICS CO.,LTD.<br>深圳市协佳电子有限公司 |   | 文件编号  | XJ-SP-1102   |
|   |   | 发布日期  | 2007年6月2日  |
| SPECIFICATION 规格书                                   |   | 第A版   | 第1页共3页   |
| MODEL NO.<br>产品名称. SK-23D04                         |   |   |  |
| DRAWN 制订  |   | APPD. 审批  |  |
| 1. RATING (额定值) : DC 50V 0.3A                       |   |   |  |
| 2. FUNCTION (接触型式) : 2P3T                           |   |   |  |
| 3. TIMING (时间特性) : SHORTING                         |   |   |  |
| 4. ELECTRICAL CHARACTERISTICS (电气性能规格):             |   |   |  |
| ITEM 项目   | TEST CONDITIONS 测试条件                    |   | PERFORMANCE 规格   |
| 4.1   | CONTACT RESISTANCE<br>接触电阻              | MEASURED AT 1KHz SMALL CURRENT(100 mA OR LESS)<br>在1KHz 微小电流(100mA) 以下测试.   | 30mΩ MAX.<br>30 毫欧以下.  |
| 4.2   | INSULATION RESISTANCE<br>绝缘电阻           | APPLY A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MIN AFTER WHICH MEASUREMENT BE MADE:<br>(1) BETWEEN TERMINALS.<br>(2) BETWEEN INDIVIDUAL TERMINALS AND FRAME.<br>输入 500V DC 电压 1 分钟,按以下接触方法测试:<br>(1) 排脚相互之间.<br>(2) 排脚与外壳之间. | 100MΩ MIN.<br>100 兆欧以上.  |
| 4.3   | DIELECTRIC STRENGTH<br>耐电压              | AC 500V rms(50-60Hz)FOR 1 MIN TRIP CURRENT:0.5 mA<br>(1) BETWEEN TERMINALS.<br>(2) BETWEEN INDIVIDUAL TERMINALS AND FRAME.<br>输入 AC 500V(50-60Hz)电压,1 分钟感度电流为 0.5mA,按以下接触方法测试:<br>(1) 排脚相互之间.<br>(2) 排脚与外壳之间.                   | WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN, ETC.<br>没有绝缘破坏等异常.  |
| 5. MECHANICAL CHARACTERISTICS (机械性能规格)              |   |   |  |
| ITEM 项目   | TEST CONDITIONS 测试条件                    |   | PERFORMANCE 规格   |
| 5.1   | OPERATING FORCE<br>作动力                  | MEASUREMENT SHALL BE MADE AT THE NEAREST POINT OF THE COMPONENT OR AT THE POINT 3mm FROM THE TIP OF THE ACTUATOR (KNOB).<br>在距离胶柄前端 3mm 作测定点 .  | (T1→T2)200gf±80gf<br>(T2→T3)250gf±100gf  |
| 5.2   | TERMINAL STRENGTH<br>端子强度               | A STATIC LOAD OF 300gf SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC.IN ANY DIRECTION<br>在排脚前端任意一个方向加 300gf 力度测试,时间为 15 秒.  | MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF ACTUATOR.<br>在端子中没有裂开.松动等异常, 满足于机械、电器性能. |
| 5.3   | DISPLACEMENT OF ACTUATOR (KNOB)<br>柄 强度 | A STATIC LOAD OF 10 N(1Kgf)SHALL BE APPLIED TO THE TOP OF THE ACTUATOR(KNOB) AND THEN DISPLACEMENT SHALL BE MEASURED TO THE DIRECTION OF THE ARROW.<br>在柄的前端施加 1Kgf 的力度,位移应沿印记的方向上定.  | THE LEVER SHALL HAVE NO SERIOUS DEFORMATION AND FUNCTION IS NORMALLY .<br>柄部无严重变形,可以正常工作.  |

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6. ENDURANCE CHARACTERISTICS (耐久性):

| ITEM 项目   | TEST CONDITIONS 测试条件  | PERFORMANCE 规格  |                        |                |                     |       |     |                        |        |     |   |
|---|---|---|------------------------|----------------|---------------------|-------|-----|------------------------|--------|-----|---|
| 6.1<br>LIFE TEST<br>寿命试验                          | <p>ENDURANCE WITHOUT LOADING:<br/>A SWITCH SHALL BE SUBJECTED TO 10,000 CYCLES AT A SPEED OF 15 TO 18 CYCLES PER MINUTE WITHOUT LOADING.<br/>无负荷:<br/>在无负荷的条件下以每分钟 15~18 回的速度进行 10,000 次的测试。</p>  | <p>(1) CONTACT RESISTANCE (接触电阻)<br/>100mΩ MAX. 100 毫欧以下。<br/>(2) INSULATION RESISTANCE(绝缘电阻)<br/>50MΩ MIN. 50 兆欧以上。<br/>(3) WITHSTAND VOLTAGE(耐电压)<br/>AC 500V,1 MINUTE.AC 500V 1 分钟。<br/>(4) OPERATING FORCE(作动力)<br/>±30% INITIAL VALUE.<br/>变化范围初始值±30%。<br/>(5) WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC.<br/>(测试后外表无损伤,并且满足机械性能)</p> |                        |                |                     |       |     |                        |        |     |   |
| 6.2<br>SOLDERABILITY TEST<br>可焊性试验                | <p>THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF 230±5°C FOR 3±0.5 SECONDS.<br/>端子顶部被浸入锡焊池中 2mm 深,温度为 230±5°C,时间为 3±0.5 秒。</p>   | <p>THE AREA OF SOLDERING.<br/>SHOULD BE OVER 75%.<br/>焊接面积要有 75%以上。</p>   |                        |                |                     |       |     |                        |        |     |   |
| 6.3<br>RESISTANCE TO SOLDERING HEAT TEST<br>耐焊性试验 | <p>(1). TEMPERATURE AND IMMERSING TIME<br/>温度及浸锡时间</p> <table border="1"> <thead> <tr> <th></th> <th>TEMPERATURE<br/>温度 (°C)</th> <th>TIME<br/>时间 (s)</th> </tr> </thead> <tbody> <tr> <td>DIP SOLDERING<br/>浸锡</td> <td>260±5</td> <td>3±1</td> </tr> <tr> <td>MANUAL SOLDERING<br/>手焊</td> <td>360±10</td> <td>3±1</td> </tr> </tbody> </table> <p>(2). IMMERSION DEPTH:<br/>IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD<br/>THICKNESS OF PRINTED WIRING BOARD 1.6mm<br/>浸锡深度:<br/>浸锡深度至基板 (PCB) 表面,基板厚度为 1.6mm。</p> |   | TEMPERATURE<br>温度 (°C) | TIME<br>时间 (s) | DIP SOLDERING<br>浸锡 | 260±5 | 3±1 | MANUAL SOLDERING<br>手焊 | 360±10 | 3±1 | <p>WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.<br/>本体无变形,能满足于机械、电器性能。</p> |
|   | TEMPERATURE<br>温度 (°C)  | TIME<br>时间 (s)  |                        |                |                     |       |     |                        |        |     |   |
| DIP SOLDERING<br>浸锡                               | 260±5   | 3±1   |                        |                |                     |       |     |                        |        |     |   |
| MANUAL SOLDERING<br>手焊                            | 360±10  | 3±1   |                        |                |                     |       |     |                        |        |     |   |
| 6.4<br>COLD TEST<br>耐冷试验                          | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -25±3°C FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.<br/>放置在温度-25±3°C中 48 小时后,再放置常温常湿中 1 小时来进行测试。</p>   | <p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.<br/>外观无异常,满足于机械、电器性能。</p>  |                        |                |                     |       |     |                        |        |     |   |

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| 6.5   | HEAT TEST<br>耐热试验                         | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF <math>70\pm 2^{\circ}\text{C}</math> FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.</p> <p>放置在温度 <math>70\pm 2^{\circ}\text{C}</math> 中测试 48 小时后,再放置正常室温中 1 小时来测定.</p>  | <p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.</p> <p>外观无异常,满足于机械、电器性能。</p> |
| 6.6   | HUMIDITY TEST<br>潮湿试验                     | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF <math>40\pm 2^{\circ}\text{C}</math> AND A HUMIDITY OF 90% TO 95% FOR 96 HOURS, THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.</p> <p>放置 <math>40\pm 2^{\circ}\text{C}</math> 的相对湿度为 90%~95% 环境中 96 小时后,再将样版放在正常环境 1 小时后进行测试.</p>  |   |
| 6.7   | STANDARD ATMOSPHERIC CONDITIONS<br>测试标准状态 | <p>UNLESS OTHERWISE SPECIFIED. THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS:</p> <p>(1) AMBIENT TEMPERATURE : <math>5^{\circ}\text{C}</math> TO <math>35^{\circ}\text{C}</math><br/> (2) RELATIVE HUMIDITY : 45% TO 85%<br/> (3) AIR PRESSURE : 86Kpa TO 106Kpa</p> <p>在没有指定的情况下测试温度、湿度、气压如下:</p> <p>(1) 温度为 <math>5\sim 35^{\circ}\text{C}</math>.<br/> (2) 湿度为 45%~85%.<br/> (3) 气压为 86Kpa~106Kpa.</p> |   |
| 6.8   | PRACTICAL TEMPERATURE RANGE<br>使用温度范围     | <p><math>-16^{\circ}\text{C}\sim +60^{\circ}\text{C}</math>.</p> <p>在 <math>-16^{\circ}\text{C}\sim +60^{\circ}\text{C}</math> 内使用.</p>   |   |