

APPROVAL SPECIFICATIONS

Title. TACT SWITCH

Product Model. KAN0713-0723C100-84

Customer's Part NO.

Customer's Model:

Customer's Approval Requested.

Please return this copy as a certification of your approval.

Checked by: _____ Date: _____

Approved by: _____ Date: _____

APPROVE	REVIEW	PREPARE
彭飞	刘叶泉	卢娇娇



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一、特点：LED 光强度高、功耗低，可靠性高，寿命长

二、用途：

移动电话、LCD 背光源、汽车仪表照明以及用表面贴装结构的电子产品等。

三、LED 极限参数 (TA=25℃)：

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	60	mW
Forward Current	I _F	20	mA
Peak Forward Current * 1	I _{FP}	100	mA
Reverse Volage	V _R	5	V
Operating Temperature	Topr	-40℃~85℃	-
Storage Temperature	Tstg	-40℃~85℃	-
Soldering Temperature	Tsol	See Page 18	-

* 1 Condition for I_F is pulse of 1/10 duty and 0.1msec width.

四、光电参数 (TA=25℃)：

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _f	I _F =20mA	-	2.0	2.3	V
Luminous Intensity	I _v	I _F =20mA	500	1200	-	mcd
Peak Wave Length	λ _p	I _F =20mA	-	621	-	nm
Dominant Wave Length	λ _d	I _F =20mA	618	621	625	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	30	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	35	-	deg



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1、概述

GENERAL

1.1 适用范围

APPLICATION

此规格书适用于机械式轻触开关的相关要求

This specification is applied to the requirements for tactile switch (mechanical contact)

1.2 工作温度范围

Operating Temperature Range

-30℃~80℃(在标准大气压、标准湿度条件下)

-30℃~80℃(Normal humidity, normal air pressure)

1.3 贮藏温度范围

Storage Temperature Range

-40℃~90℃(在标准大气压、标准湿度条件下)

-40℃~90℃(Normal humidity, normal air pressure)

1.4 测试条件

Test Conditions

在没有其它特定的条件下，应该在以下的条件下进行测试和测量：

Unless otherwise specified, tests and measurement shall be made in the following standard conditions:

常温.....5℃~35℃

Normal temperature.....5℃~35℃

标准湿度.....相对湿度 25%~85%

Normal humidity.....relative humidity 25%~85%

标准大气压.....86Kpa~106Kpa

Normal air pressure.....86Kpa~106Kpa

在制造过程中，测试和测量应该在以下的条件下进行：

If any doubt arise from the judgment, tests shall be conducted at the following conditions:

温度.....20℃±2℃

Temperature.....20℃±2℃

相对湿度.....65%±5%

Relative humidity.....65%±5%

环境气压.....86Kpa~106Kpa

Air pressure.....86Kpa~106Kpa

1.5 存储方法

Storage method

1. 使用前确保包装完整无破损，无浸湿。

Ensure that the product without package breaking or wetting before use.

2. 存储条件 Storage conditions:

储存温度 Storage temperature : -5 ~ 35 C ;

储存湿度 Storage humidity : 25%~80% ;

未开封状态：6个月内使用完毕（从发货日开始计算）；超过6个月后再使用的，使用前请先验证：端脚无氧化、无发黑、塑料件无吸湿起泡，确保焊接的适宜性；

Unopened status: Use up the product as soon as possible before 6 months. (calculated from shipment date). Over 6 months, please make sure below before use it: terminal without oxidation or blackening, plastic parts without moisture absorption or bubble, ensure solderability.

已开封状态：1个月内使用完毕；

Opened status: use up within 1 month;

储存注意事项：避开高湿高温和有腐蚀性气体的环境及阳光直射；

Storage precautions: Please avoid the following environment: with high humidity, high temperature, corrosive gases and direct sunlight.

3. 请勿超重叠放。

Do not stack too many switches.



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2、 详细说明

Detailed specification

2.1 外观：应无影响、降低产品性能的缺陷；

Appearance: There should be no defects that affect the serviceability of product.

2.2 结构尺寸和安装尺寸：应符合装配图要求；

Style and dimension: shall conform to the assemble drawings.

2.3 操作形式：有触觉反应的操作

Type of actuating: Tactile feedback.

2.4 开关结构：单回路单输出(具体的触点结构在装配图中已绘出)；

Contact arrangement: 1 pole, 1 throw

(Details of contact arrangement are given in the assembly drawings.)

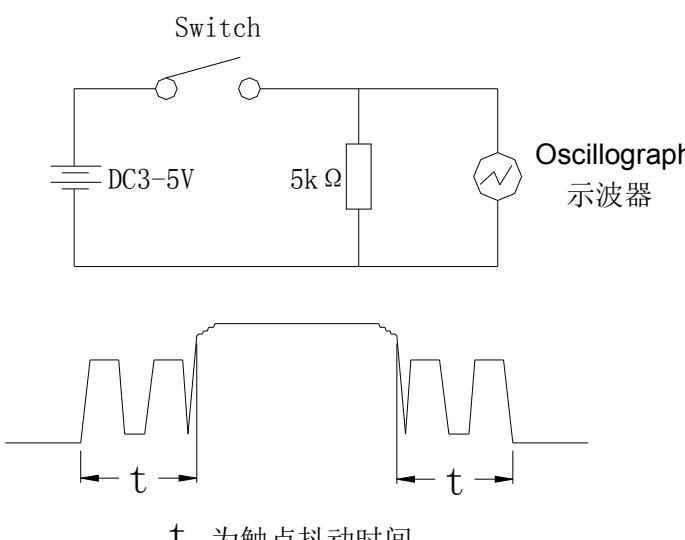
2.5 开关工作额定值：DC 12V 50mA (最大值) DC 1V 10 μ A (最小值)

Ratings: DC 12V 50mA (Max) DC 1V 10 μ A (Min)

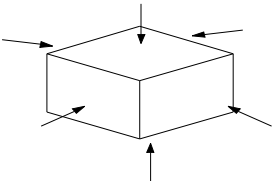
3. 电气性能：**ELECTRICAL SPECIFICATION**

项 目 ITEM		试 验 条 件 TEST CONDITIONS	要 求 REQUIREMENTS
3.1	接触电阻 Contact Resistance	在以 5V 10mA 的直流电源或不低于 1KHz 的交流电源的电路中，以一个等于 2 倍按力的静负荷施加于手柄中心 Applying a static load of 2 times operating force to the center of the stem, measurements shall be made by 5V DC 10mA or more than 1KHz AC small-current contact resistance meter.	$\leq 100m\Omega$
3.2	绝缘电阻 Insulation Resistance	在端子之间施加 DC 100V /min 的条件下,测量端子之间底座、盖板的电阻值 Measurement shall be made following application of 100V DC potential, across terminals, and across terminals and cover, for one minute.	$\geq 100M\Omega$
3.3	介质耐压 Dielectric voltage proof	在端子之间施加 250V AC(50Hz 或 60Hz)/min 250V AC (50Hz or 60Hz) shall be applied across terminals, for one minute.	无击穿、无飞弧 There should be no breakdown and flashover



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项目 ITEM	试验条件 TEST CONDITIONS			要求 REQUIREMENTS
3.4 触点抖动 Bounce	<p>按照正常使用时的力度轻按手柄中心（每秒3~4次），在导通和断开过程中测试开关抖动 Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 times per second), and bounce shall be tested at "ON" and "OFF"</p>  <p style="text-align: center;">t 为触点抖动时间</p>			ON-3ms max OFF-8ms max
4. 机械性能: MECHANICAL SPECIFICATION				
4.1	<p>按力 Operating Force</p>	<p>开关垂直于操作方向放置，在开关驱动件顶端中心逐渐施力，测量开关导通所需的最大力度。 Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the center of the stem, the maximum load required for the switch to come to a stop shall be measured.</p> <p style="text-align: right;">260±50 gf</p>		
4.2	<p>最大行程 Full Travel</p>	<p>开关垂直于操作方向放置，以一个等于2倍按力的静负荷施加在开关驱动件顶端中心，测量顶端移动的距离。 Placing the switch such that the direction of switch operation is vertical and then applying static load of 2times operating force to the center of the stem; the travel distance for the switch to come to a stop shall be measured.</p> <p style="text-align: right;">0.25±0.1mm</p>		



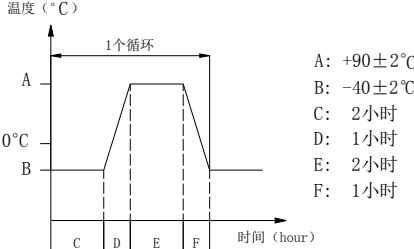
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项目 ITEM		试验条件 TEST CONDITIONS			要求 REQUIREMENTS
4.3	回弹力 Return Force	开关垂直于操作方向放置，在开关驱动件顶端中心下降至全行程后，测量顶端向自由位置转换的力度。 The sample switch is installed such that the direction of switch operation is vertical and upon depressing the stem in its center to the whole travel distance, the force of the stem to return to its free position shall be measured.			20gf Min
4.4	停止强度 Stop Strength	开关垂直于操作方向放置，从操作方向向驱动件施加 30N 的静负荷持续 1min。 Placing the switch such that the direction of switch operation is vertical, and then a static load of 30N shall be applied in the direction of stem operation for a period of 1 min.			无机械和电气损坏 There shall be no sign of damage mechanically and electrically.
4.5	手柄拔出强度 Stem Strength	开关垂直于操作方向放置，反方向实施最大操作力，并测量手柄的行程范围。 Placing the switch such that the direction of switch operation is vertical, and then the maximum force to withstand a pull applied opposite to the direction of stem operation shall be measured.			20N min.
4.6	振动 Vibration	根据以下给定条件进行测试： Measurement shall be made following the test set forth below: (1) 振动频率范围：10~55~10Hz Vibration frequency range: 10 to 55 to 10Hz (2) 振幅（峰—峰）：1.5mm Amplitude: 1.5mm (3) 振动方向：包括手柄行程方向在内的三个相互垂直的方向 Direction of vibration: Three mutually perpendicular direction including the direction of stem travel (4) 测试时间：每次 2 小时 Duration: Each 2 hours.			Item 3 Item4.1 Item4.2 Item4.3
4.7	冲击 Shock	根据下列条件进行冲击试验 Test by following conditions (1)安装方法：正常安装 (1)installation method: normal (2)加速度：784m/s ² (2)Acceleration: 784m/s ² (3)作用时间：11ms (3)Acting time: 11ms (4)测试方向：6 个方向 (4)Test direction: 6 directions 冲击次数：每个方向 3 次，共计 18 次 Times: 3 times/direction ,total 18 times			 Item3 Item4.1 Item4.2 Item4.3



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5、环境耐久性：

ENVIRONMENTAL SPECIFICATION

项目 ITEM	试验条件 TEST CONDITIONS	要求 REQUIREMENTS
5.1 低温测试 Resistance to low temperature	<p>样品应按照以下实验条件进行测试，实验后样品应放在常温及标准湿度的环境中 1 小时后做性能测试：</p> <p>Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made:</p> <p>(1) 温度：-40±2℃ Temperature : -40±2℃</p> <p>(2) 时间：96h Time: 96h</p>	Item3 Item4.1 Item4.2 Item4.3
5.2 高温测试 Heat resistance	<p>样品应按照以下实验条件进行测试，实验后样品应放在常温及标准湿度的环境中 1 小时后做性能测试：</p> <p>Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made:</p> <p>(1) 温度：90±2℃ temperature:90±2℃</p> <p>(2) 时间：96h time: 96h</p>	Item3 Item4.1 Item4.2 Item4.3
5.3 温度周期性测试 Change of temperature	<p>根据下面的测试要求进行 5 次循环的温度周期性测试，实验后样品应放在常温及标准湿度的环境中 1 小时后做性能测试。测试期间样品应保持干燥。</p> <p>After 5 cycles of following conditions, the sample shall be allowed to stand under normal temperature and humidity conditions for 1 h. and measurements shall be made. During the test water drops shall be removed.</p>  <p>温度 (°C)</p> <p>0°C</p> <p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p> <p>时间 (hour)</p> <p>1个循环</p> <p>A: +90±2℃ B: -40±2℃ C: 2小时 D: 1小时 E: 2小时 F: 1小时</p>	Item3 Item4.1 Item4.2 Item4.3
5.4 湿温测试 Moisture resistance	<p>样品应按照以下实验条件进行测试，实验后样品应放在常温及标准湿度的环境中 1 小时后做性能测试：</p> <p>Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made:</p> <p>(1) 温度：60±2℃ temperature: 60±2℃</p> <p>(2) 相对湿度：90%~95% relative humidity:90% to 95%</p> <p>(3) 时间：96h time: 96h</p>	接触电阻：≤200mΩ Contact resistance≤200mΩ 绝缘电阻：≥10MΩ Insulation Resistance≥10MΩ Item3.3 Item3.4 Item4.1 Item4.2 Item4.3



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项目 ITEM		试验条件 TEST CONDITIONS			要求 REQUIREMENTS
5.5	硫化试验 Sulfuration resistance	<p>样品应按照以下实验条件进行测试，实验后样品应放在常温及标准湿度的环境中 1 小时后做性能测试：</p> <p>Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made:</p> <p>(1) H₂S 气体浓度：3ppm±1ppm H₂S gas concentration: 3ppm±1ppm</p> <p>(2) 时间：72h Time: 72h</p> <p>(3) 温度：40±2℃（90~95%RH） temperature: 40±2℃（90~95%RH）</p>			<p>接触电阻：≤200mΩ Contact resistance≤200mΩ</p> <p>Item3.3 Item3.4 Item4.1 Item4.2 Item4.3</p>
5.6	盐雾试验 Salt Mist	<p>在以下设定条件下进行测量:</p> <p>The switch shall be checked after following test:</p> <p>(1) 温度：35℃±2℃ temperature: 35℃±2℃</p> <p>(2) 盐溶液浓度：5±1%（质量百分比） salt solution : 5±1%(solids by mass)</p> <p>(3) 时间：48±1h Time: 48±1h</p> <p>实验后的盐沉积物后水冲掉 After test, salt deposit shall be removed by running water.</p>			<p>金属件上没有腐蚀斑点 No remarkable corrosion shall be recognized in metal part.</p>
5.7	动作寿命 Operation life	<p>根据下面的测试要求进行测试：</p> <p>Measurement shall be made following the test set forth below:</p> <p>(1) DC 12V，50mA 带负载 DC 12V, 50 mA resistive load</p> <p>(2) 按动速率：2 次/秒 Rate of operation: 2 times/s</p> <p>(3) 按力：按力的 1.5 倍 Operating Force : 1.5 times as much as Operating Force</p> <p>(4) 无故障寿命：1,000,000 次 fault-free life:1,000,000 cycles</p>			<p>接触电阻≤1Ω Contact resistance≤1Ω</p> <p>绝缘电阻≥10MΩ Insulation Resistance≥10MΩ</p> <p>触点抖动 ON-20ms max Bounce OFF-20ms max</p> <p>按力：初值的±30% Operating Force: initial value±30%</p> <p>Item3.3 Item4.2</p>



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项目 ITEM		试验条件 TEST CONDITIONS			要求 REQUIREMENTS
5.8	可焊性 Solderability	在以下设定条件下进行测量: Measurements shall be made following the test set forth below: (1) 焊接温度:245±5℃ Solder temperature : 245±5℃ (2) 浸入时间:3s±0.5s Immersion time: 3s±0.5s			除边缘外涂层应均匀覆盖90%以上 Except for the edge, the coating should cover a minimum 90%
6. 焊接条件: SOLDERING CONDITIONS:					
6.1	手工焊接 Hand soldering	请按以下条件进行焊接: (1) 焊锡温度: ≤350℃ (2) 连续焊接时间: ≤3 s Please practice according to below conditions: (1) Soldering temperature: ≤350℃ (2) Continuous soldering time: ≤3 s			



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项目 ITEM	推荐条件 Recommended conditions			
波峰焊 Wave-soldering				

注意事项(Notes) :

a、印刷基板的焊盘尺寸参见产品图。

The pad size of the printed substrate is shown in the product diagram.

b、在使用烙铁的情况下，焊锡温度应在 350℃以下、3 秒以内。

In the case of using soldering iron, soldering conditions shall be 350℃ max and 3 sec.max.

c、防止助焊剂从开关的顶端渗入

Prevent flux penetration from the top of the switch

d、开关浸焊后，注意不要用溶剂或类似品清洗开关。

After switches were soldered, please be careful not to clean switches with solvent or other similar products.

e、浸焊后，注意不要在顶部施加负荷。

Right after switches were soldered, please be careful not to load to on the knobs of switches.

f、注意不要施加超负荷的压力或晃动开关。

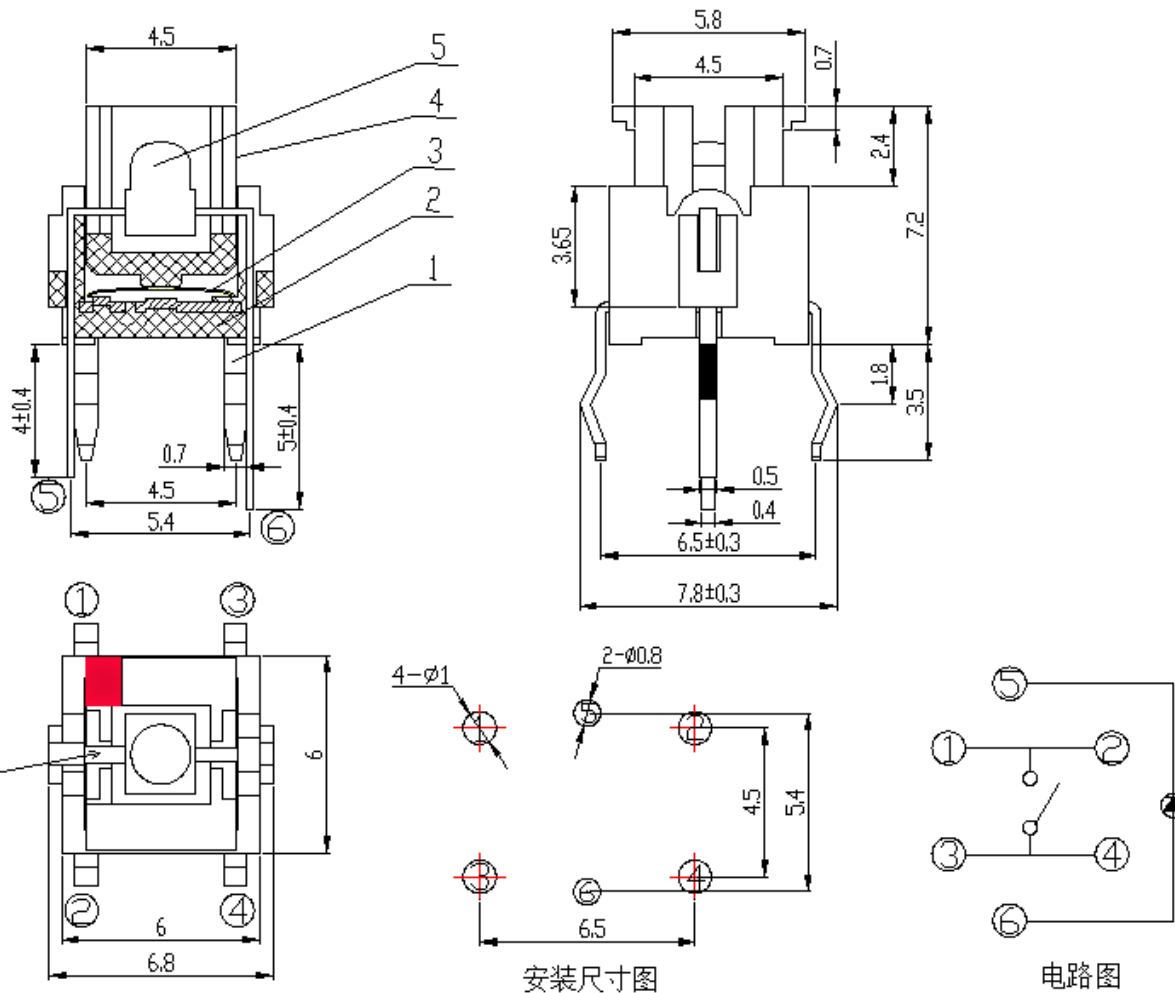
Please be cautions not to give excessive static load or shock to switches.

g、开关浸焊后，印刷基板注意不要叠放。

Please be careful not to pile up P.W.B. after switches were soldered



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手柄上打颜色标记的一侧
对应的粗引脚为LED灯负极

安装尺寸图

电路图

General tolerance : ±0.2mm

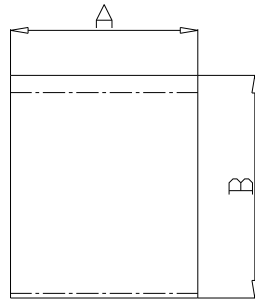
NO.	NAME	MATERIAL	QTY.	FINISHING
1	Terminal	Brass	1	Silver plating
2	Case	PA66	1	Black
3	Contact	SUS	1	Ag plating
4	Stem	PA66	1	White
5	LED		1	Red



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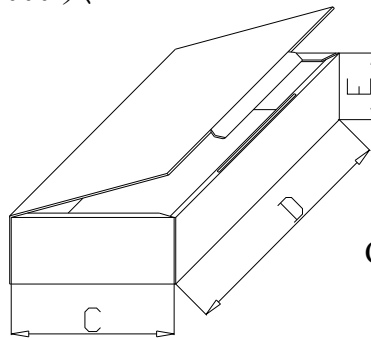
7、包装规格：

7.1:每个包装袋装 1000 只，每袋放一包干燥剂，封口要紧密



A=190mm、B=195mm

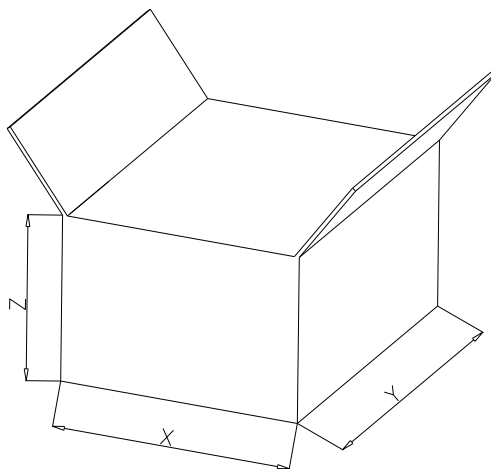
7.2:每个内盒装 2 袋，共 2000 只 **包装袋**



C=160mm、D=216mm、E=63mm

内盒

7.3:每个外箱装 20 盒，共 40000 只



X=350mm、Y=455mm、Z=280mm

外箱



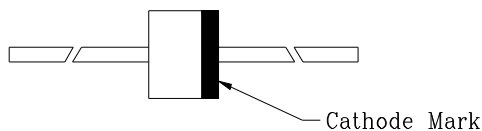
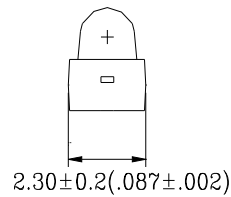
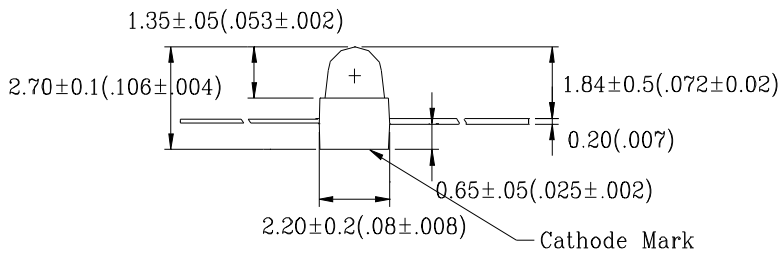
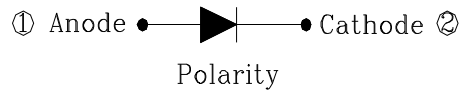
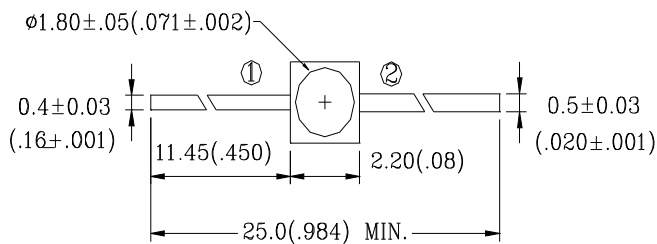
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● Features:

1. Emitted Color: Super Red.
2. Lens Appearance: Water Color.
3. Low cost plastic package.
4. This product doesn't contain restriction

Substance, comply ROHS standard.

● Package Dimensions:



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (0.004") unless otherwise specified.
3. Specifications are subject to change without notice.

● Applications:

1. Automotive: Dashboards, stop lamps, turn signals.
2. Backlighting: LCDs, Key pads advertising.
3. Status indicators: Consumer & industrial electronics.
4. General use.



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● **Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	60	mW
Forward Current	I _F	20	mA
Peak Forward Current * 1	I _{FP}	100	mA
Reverse Volage	V _R	5	V
Operating Temperature	Topr	-40°C~85°C	-
Storage Temperature	Tstg	-40°C~85°C	-
Soldering Temperature	Tsol	See Page 18	-

* 1 Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

● **Electrical and optical characteristics(Ta=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _f	I _F =20mA	-	2.0	2.3	V
Luminous Intensity	I _v	I _F =20mA	500	1200	-	mcd
Peak Wave Length	λ _p	I _F =20mA	-	621	-	nm
Dominant Wave Length	λ _d	I _F =20mA	618	621	625	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	30	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	35	-	deg



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● Typical Electro-Optical Characteristics Curves

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

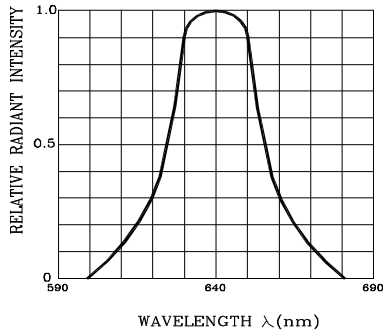


Fig.2 FORWARD CURRENT DERATING CURVE

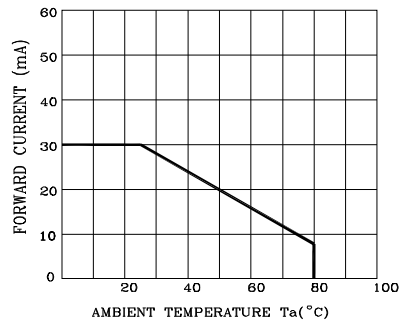


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

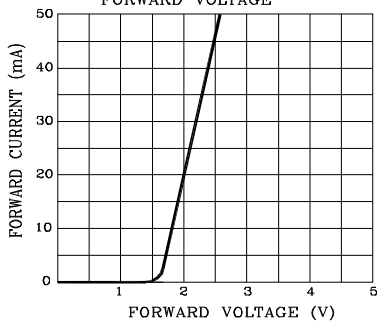


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

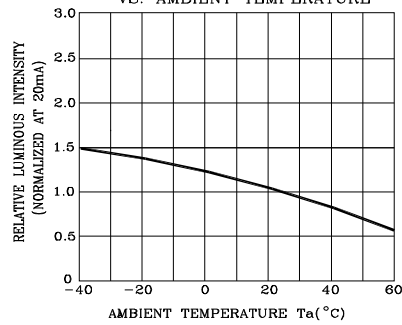


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

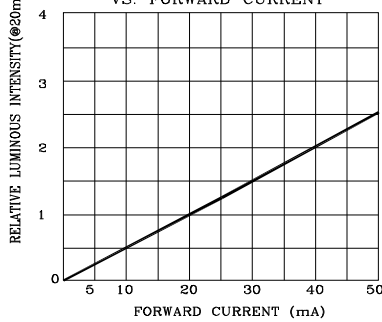
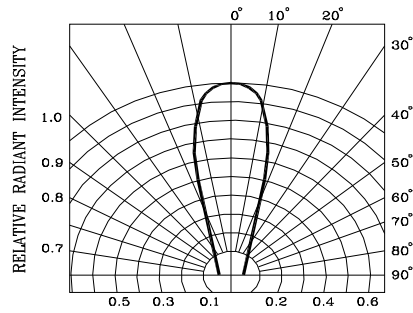


Fig.6 RADIATION DIAGRAM





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● Reliability Test

Classification	Test Item	Reference Standard	Test Conditions	Result
Endurance Test	Operation Life	MIL-STD-750D:1026 MIL-STD-883D:1005 JIS-C-7021 :B-1	Connect with a power $I_f=20\text{mA}$ T_a =Under room temperature Test time=1,000hrs	0/20
	High Temperature High Humidity Storage	MIL-STD-202F:103B JIS-C-7021 :B-11	$T_a=+85^\circ\text{C}\pm 5^\circ\text{C}$ RH=90%-95% Test time=240hrs	0/20
	High Temperature Storage	MIL-STD-883:1008 JIS-C-7021 :B-10	High $T_a=+100^\circ\text{C}\pm 5^\circ\text{C}$ Test time=1,000hrs	0/20
	Low Temperature Storage	JIS-C-7021 :B-11	Low $T_a=-40^\circ\text{C}\pm 5^\circ\text{C}$ Test time=1,000hrs	0/20
Environmental Test	Temperature Cycling	MIL-STD-202F:107D MIL-STD-750D:1051 MIL-STD-883D:1010 JIS-C-7021 :A-2	$-35^\circ\text{C}\pm 5^\circ\text{C}\sim +25^\circ\text{C}\sim +85^\circ\text{C}\pm 5^\circ\text{C}\sim +25^\circ\text{C}$ 30min 5min 30min 5min Test Time=10cycle	0/20
	Thermal Shock	MIL-STD-202F:107D MIL-STD-750D:1051 MIL-STD-883D:1011	$-40^\circ\text{C}\pm 5^\circ\text{C}\sim +85^\circ\text{C}\pm 5^\circ\text{C}$ 20min 20min Test Time=10cycle	0/20
	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS-C-7021 :A-1	Preheating : $140^\circ\text{C}\sim 160^\circ\text{C}$, within 2 minutes. Operation heating : 260°C (Max.), within 10seconds. (Max.)	0/20

● Judgment criteria of failure for the reliability

Measuring items	Symbol	Measuring conditions	Judgement criteria for failure
Forward voltage	V_F (V)	$I_F=20\text{mA}$	Initial Level*1.1
Reverse current	I_R (μA)	$V_R=5\text{V}$	Over U*2
Luminous intensity	I_v (mcd)	$I_F=20\text{mA}$	Initial Level*0.7

Note: 1.U means the upper limit of specified characteristics.

2. Measurement shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.



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● Soldering :

1. Manual Of Soldering

The temperature of the iron tip should not be higher than 300°C (572°F) and Soldering within 3 seconds per solder-land is to be observed.

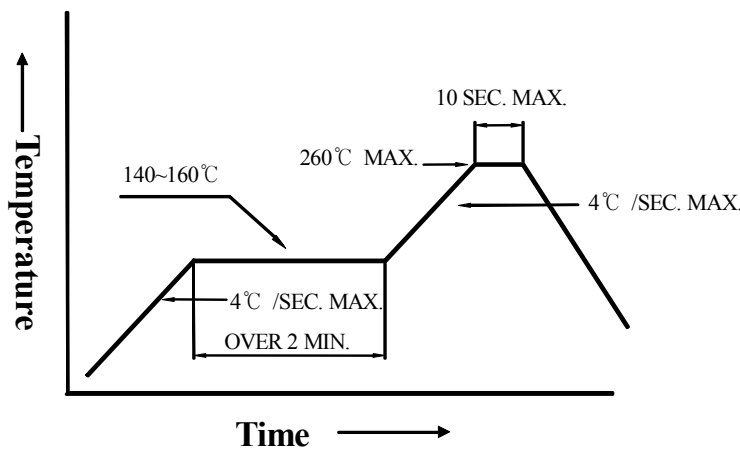
2. Reflow Soldering

Preheating : 140°C~160°C±5°C, within 2 minutes.

Operation heating : 260°C (Max.) within 10 seconds.(Max)

Gradual Cooling (Avoid quenching).

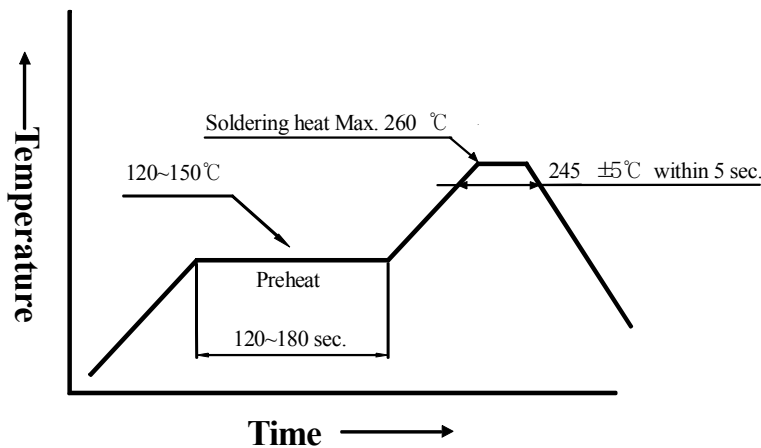
3. DIP soldering (Wave Soldering) :



Preheating : 120°C~150°C, within 120~180 sec.

Operation heating : 245°C±5°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching).





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● **Storage:**

In order to avoid the absorption of moisture, it is recommended to solder BAIHENG LEDs as soon as possible after unpacking the sealed envelope.

If the envelope is still packed, to store it in the environment as following:

- (1) Temperature : 5°C-30°C (41°F) Humidity : RH 60% Max.
- (2) After this bag is opened, devices that will be applied to infrared reflow, vapor-phase reflow, or equivalent soldering process must be:
 - a..... Completed within 168 hours.
 - b..... Stored at less than 30% RH.
- (3) Devices require baking before mounting, if:
 - (2) a or (2) b is not met.
- (4) If baking is required, devices must be baked under below conditions: 48 hours at 60°C±3°C.

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