

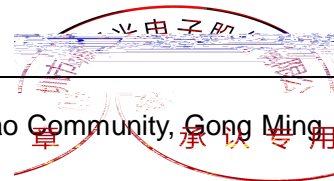
Customer Name _____

Customer P/N : _____

Refond P/N : _____

Sending Date: _____

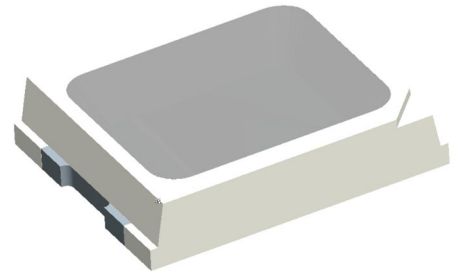
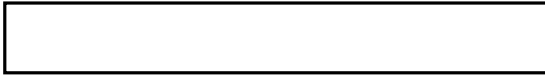
1-8th Floor, Building #1,10th Industrial Zone, Tian Liao Community, Gong Ming Area, Guang Ming New District, Shenzhen, China.



0755-66839118

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0755-66839300

www.refond.com



PLCC-2 Package.

Extremely wide viewing angle.

Suitable for all SMT assembly and solder process.

SMT

Available on tape and reel.

Moisture sensitivity level: 3. 3

Package:4000pcs/reel. 4000 /

RoHS compliant. RoHS

The Red source color devices are made with AlGaInP on Substrate Light Emitting Diode
LED AlGaInP

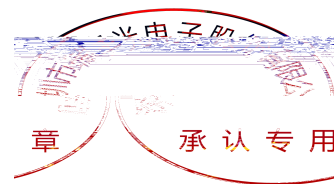
Optical indicator.

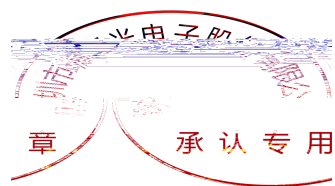
Indoor display.

Landscape lighting,lamp belt.

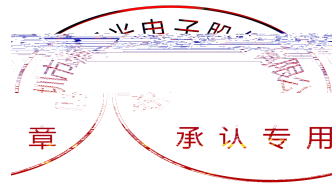
General use.

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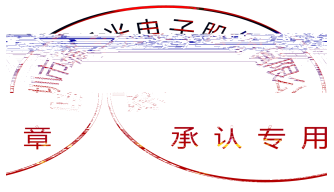




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章 承认专用

PART NO.	Part Number
SPEC	SpecNumber
LOT NO.	Lot Number
BIN CODE	Bin Code
	Luminous flux
WLD	Dominant wavelength
VF	Forward Voltage
QTY	Packing Quantity
DATE	Made Date

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Test Items	Ref.Standard	Test Condition	Time	Quantity	Ac/Re /
Reflow	JESD22-B106	Temp:260 max T=10 sec	2times.	10Pcs.	0/1
Thermal Shock	JESD22-A106	-40 15min 100 15min	100 cycle	10Pcs.	0/1
High Temperature Storage	JESD22-A103	Temp:105	1000Hrs.	10Pcs.	0/1
Low Temperature Storage	JESD22-A119	Temp:-40	1000Hrs.	10Pcs.	0/1
Life Test	JESD22-A108	Ta=25 IF=150mA	1000Hrs.	10Pcs.	0/1
High Temperature High Humidity Life Test	JESD22-A101	60 / 90%RH IF=150mA	1000Hrs.	10Pcs.	0/1

Test Items	Symbol	Test Condition	Criteria For Judgement	Applicable project
Forward Voltage	Vf	IF=150mA	10%	Reflow Temperature Cycle High and Low Temperature Storage Life Test
		IF=150mA	Maintenance 70%	
Lamp bead light test	/	IF=150mA	No open circuit, shortcircuit or flicke	High Temperature High Humidity Life Test

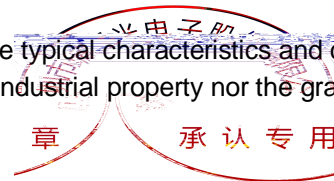
U.S.L: Upper standard level

L.S.L: Lower standard level

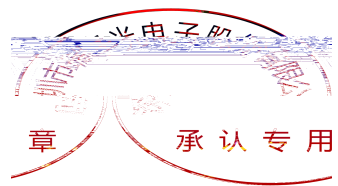
Note:

The Reliability tests are based on Refond existing test platform.

The technical information shown in the data sheets are limited to the typical characteristics and circuit examples of the referenced products. It does not constitute the warranting of industrial property nor the granting of any license.



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1>.LED operating environment and sulfur element composition cannot exceed 100PPM in the LED mating usage material. This is provided for informational purposes only and is not a warranty or endorsement.LED

900PPM

100PPM

1500PPM

900PPM

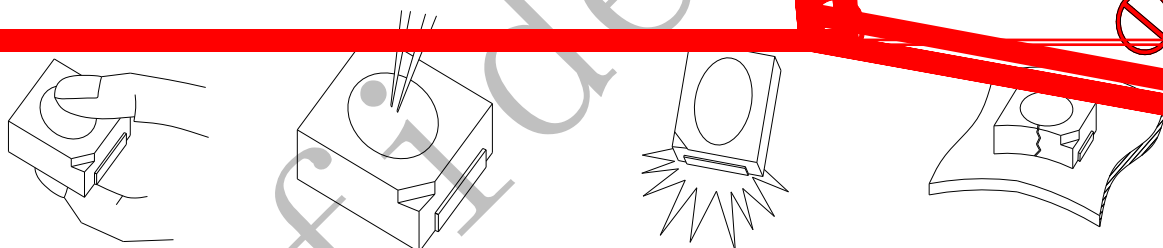
LED

2>.VOCs (Volatile organic compounds) emitted from materials used in the construction of fixtures can penetrate silicone encapsulants of LEDs and discolor when exposed to heat and ultrasonic energy. The result can be a significant loss of light output from the fixture. Knowledge of the properties of the materials selected to be used in the construction of fixtures can help prevent these issues. Refond advises against the use of any chemicals or materials that have been found or are suspected to have an adverse effect on device performance or reliability. To verify compatibility, Refond recommends that all chemicals and materials be tested in the specific application and environment for which they are intended to be used. Attaching LED should not use adhesives that outgas organic vapor.

LED

LED

3>.Handle the component along the side surface by using forceps or appropriate tools; do not directly touch or Handle the silicone lens surface, it may damage the internal circuitry.

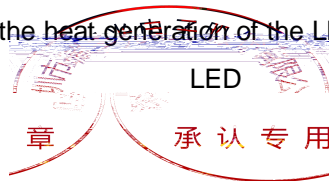


4>.In designing a circuit,the current through each LED must be exceed the absolute maximum rating specified for each LED.In the meanwhile,resistors for protection should be applied,otherwise slight voltage shift will cause big current change,burn out may happen. The driving circuit must be designed to allow forward voltage only when it is ON or OFF.If the reverse voltage is applied to LED, migration can be generated resulting in LED damage.

LED

LED

5>.Thermal Design is paramount importance because heat generation may result in the Characteristics decline,such as brightness decreased,Color change and so on.Please consider the heat generation of the LEDs when making the system design.LED



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13>.Other points for attention, please refer to our LED user manual.

This specification is written both in English and in Chinese and the latter is formal.

Both the customers and Refond will agree on official specifications of supplied products before a customer's volume production.

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