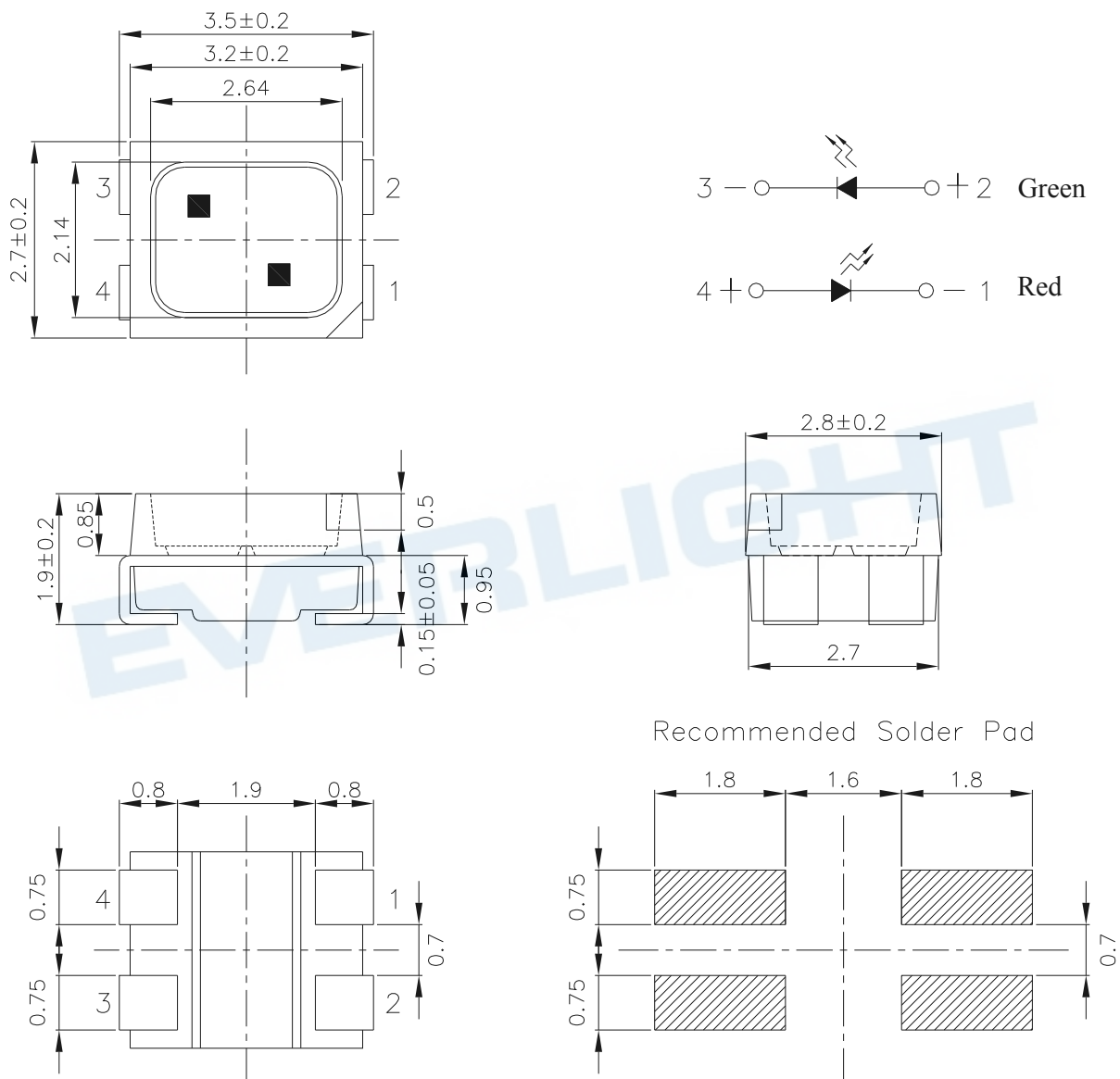


Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

67-22SURSYGC/S530-A2/TR8

Package Dimensions



Note: The tolerances unless mentioned is ± 0.1 mm ;Unit = mm

Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

67-22SURSYGC/S530-A2/TR8

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	SUR 25	mA
		SYG 25	
Peak Forward Current(Duty 1/10 @ 1KHz)	I _{FP}	SUR 60	mA
		SYG 60	
Power Dissipation	P _d	SUR 60	mW
		SYG 60	
Electrostatic Discharge(HBM)	ESD	SUR 2000	V
		SYG 2000	
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +95	°C
Soldering Temperature	Tsol	Reflow Soldering : 260 °C for 10 sec. Hand Soldering : 350 °C for 3 sec.	

Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

67-22SURSYGC/S530-A2/TR8

Electro-Optical Characteristics (Ta=25°C)

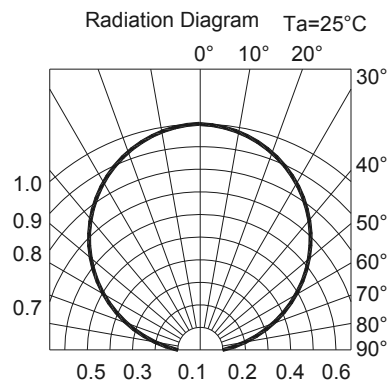
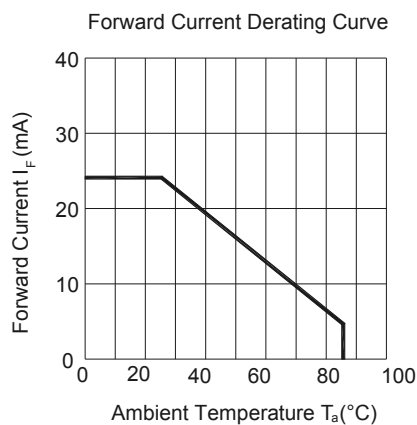
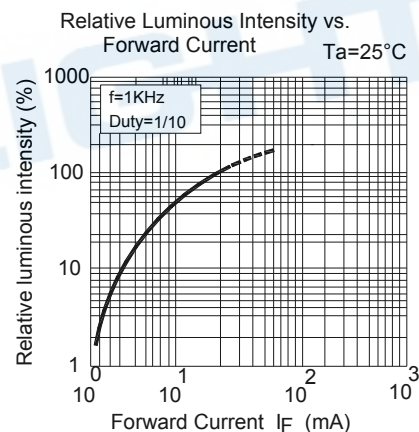
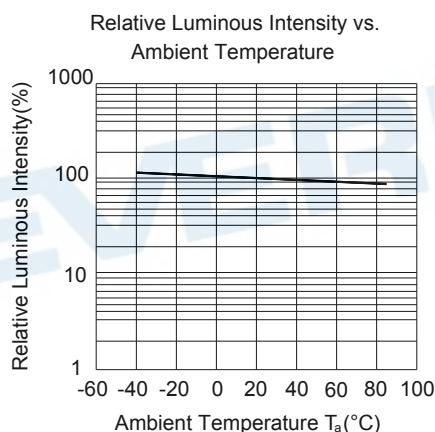
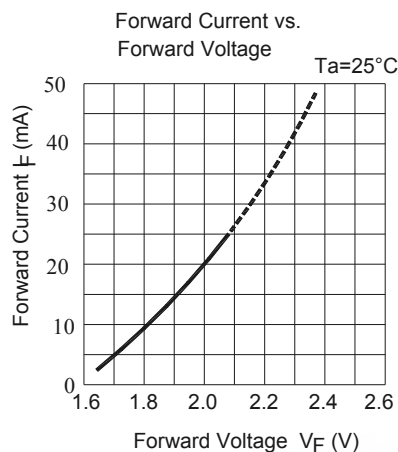
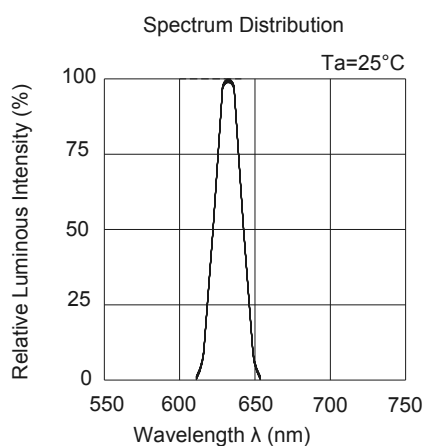
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _V	SUR	24	59	-----	mcd
		SYG	16	24	-----	
Viewing Angle	201/2	-----	120	-----	deg	I _F =20mA
Peak Wavelength	λ _p	SUR	-----	632	-----	nm
		SYG	-----	575	-----	
Dominant Wavelength	λ _d	SUR	-----	624	-----	nm
		SYG	-----	573	-----	
Spectrum Radiation Bandwidth	Δλ	SUR	-----	20	-----	nm
		SYG	-----	20	-----	
Forward Voltage	V _F	SUR	1.7	2.0	2.4	V
		SYG	1.7	2.0	2.4	
Reverse Current	I _R	-----	-----	10	μA	V _R =5V

Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

67-22SURSYGC/S530-A2/TR8

Typical Electro-Optical Characteristics Curves (SUR)

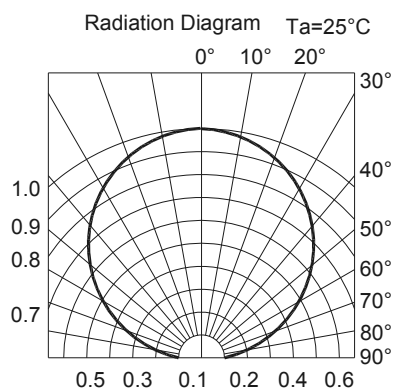
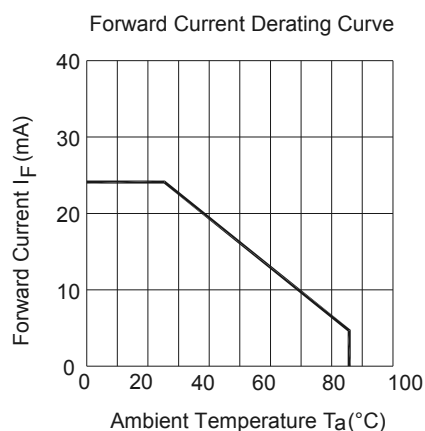
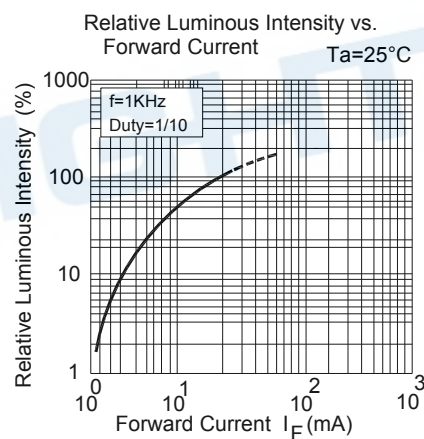
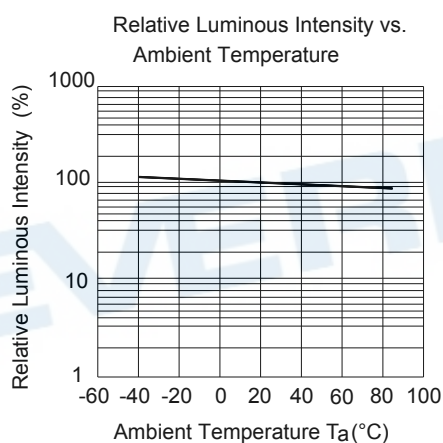
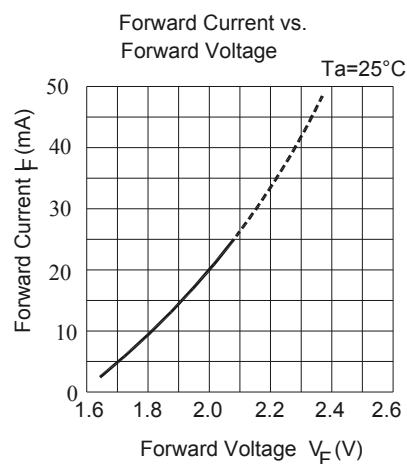
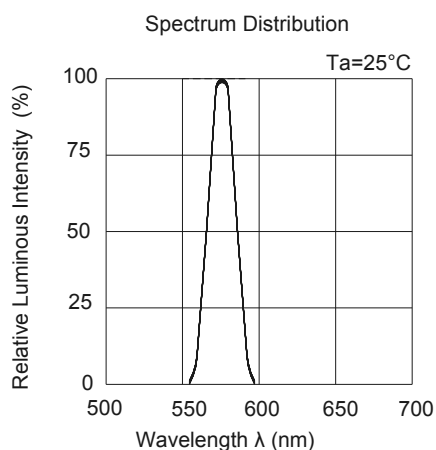


Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

67-22SURSYGC/S530-A2/TR8

Typical Electro-Optical Characteristics Curves (SYG)



Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

67-22SURSYGC/S530-A2/TR8

Label Explanation

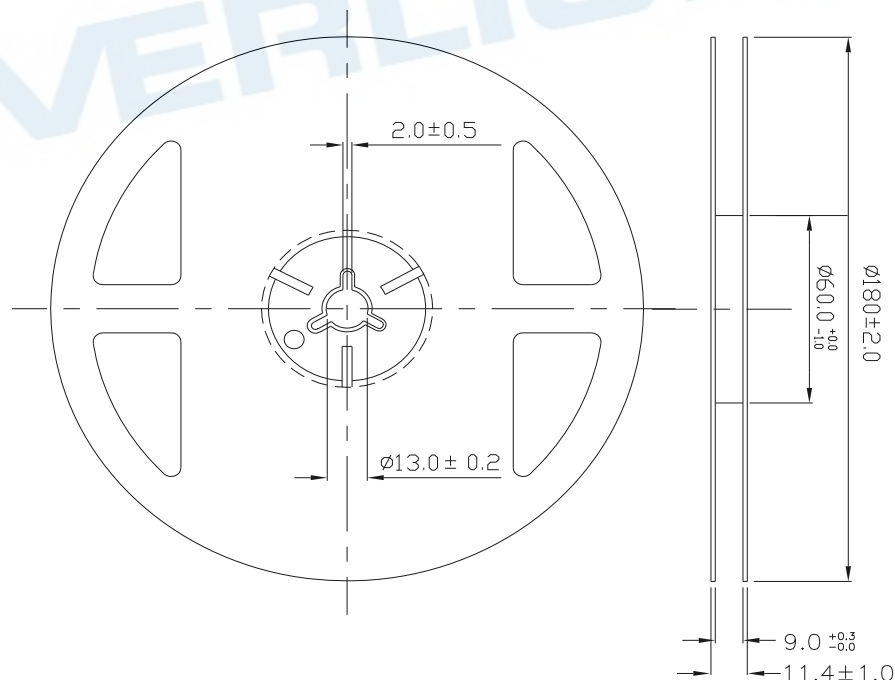
CAT: Luminous Intensity Rank

HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank



Reel Dimensions



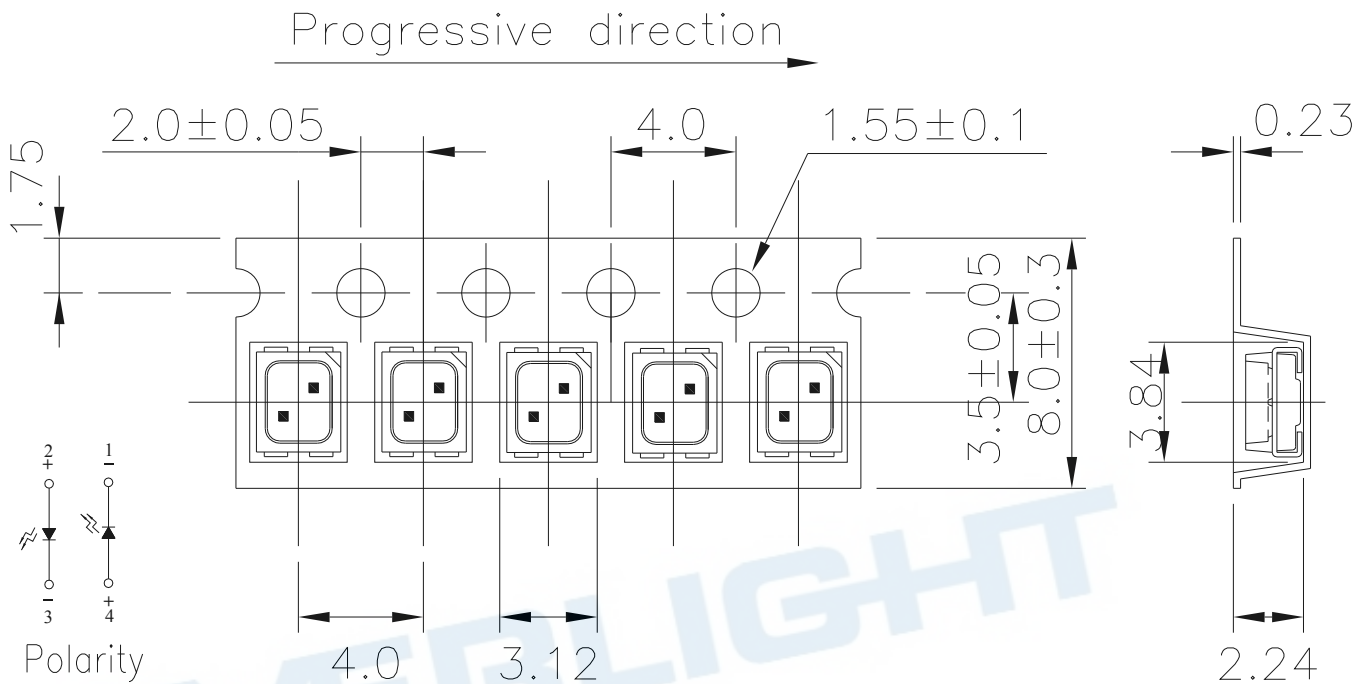
Note: The tolerances unless mentioned is ± 0.1 mm; Unit = mm

Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

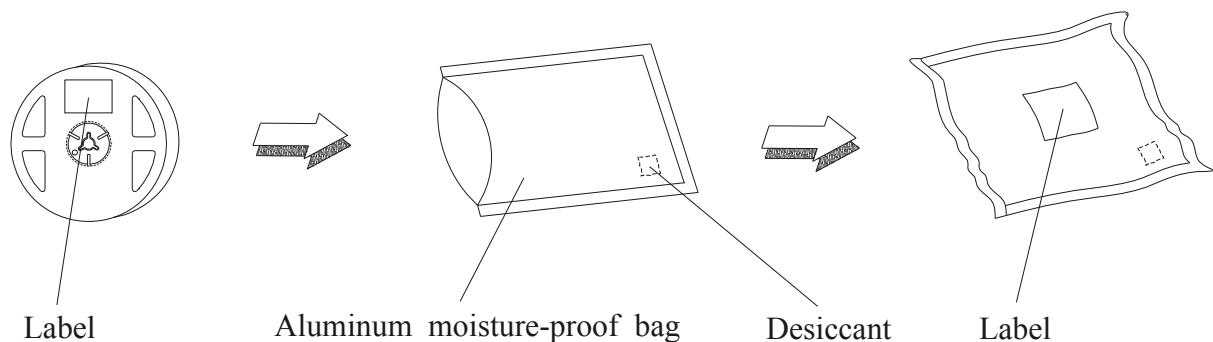
67-22SURSYGC/S530-A2/TR8

Carrier Tape Dimensions: Loaded Quantity 2000 pcs Per Reel



Note: The tolerances unless mentioned is ± 0.1 mm; Unit = mm

Moisture Resistant Packaging



Technical Data Sheet**Bi-Color (Multi-Color) Top View LEDs****67-22SURSYGC/S530-A2/TR8****Reliability Test Items and Conditions**

The reliability of products shall be satisfied with items listed below.

Confidence level : 90%

LTPD : 10%

No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Re
1	Reflow Soldering	Temp. : 260°C±5°C Max. 10 sec.	6 Min.	22 PCS	0/1
2	Temperature Cycle	H : +100°C 15min ∫ 5 min L : -40°C 15min	300 Cycles	22 PCS.	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	300 Cycles	22 PCS.	0/1
4	High Temperature Storage	Temp. : 100°C	1000 Hrs.	22 PCS.	0/1
5	Low Temperature Storage	Temp. : -40°C	1000 Hrs.	22 PCS.	0/1
6	DC Operating Life	I _F = 30 mA / 25°C	1000 Hrs.	22 PCS.	0/1
7	High Temperature / High Humidity	85°C/85%RH	1000 Hrs.	22 PCS.	0/1

Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

67-22SURSYGC/S530-A2/TR8

Precautions for Use

1. Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

2.2 Before opening the package: The LEDs should be kept at 30°C or less and 90%RH or less.

2.3 After opening the package: The LED's floor life is 168 hours under 30°C or less and 60% RH or less.

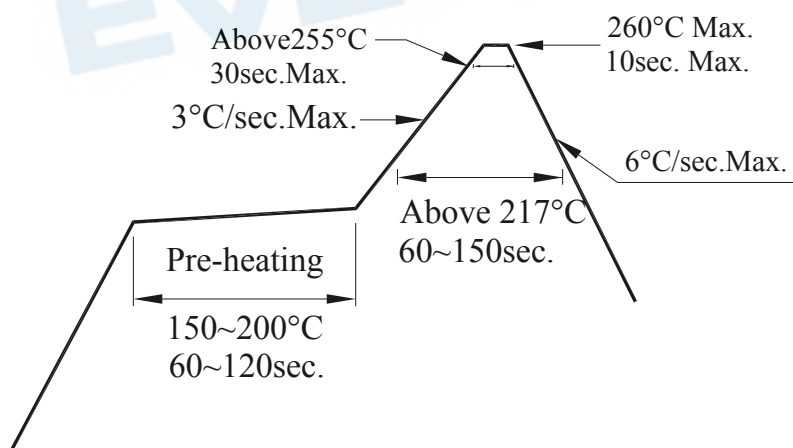
If unused LEDs remain, it should be stored in moisture proof packages.

2.4 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions.

Baking treatment : 60±5°C for 24 hours.

3. Soldering Condition

3.1 Pb-free solder temperature profile



3.2 Reflow soldering should not be done more than two times.

3.3 When soldering, do not put stress on the LEDs during heating.

3.4 After soldering, do not warp the circuit board.

Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

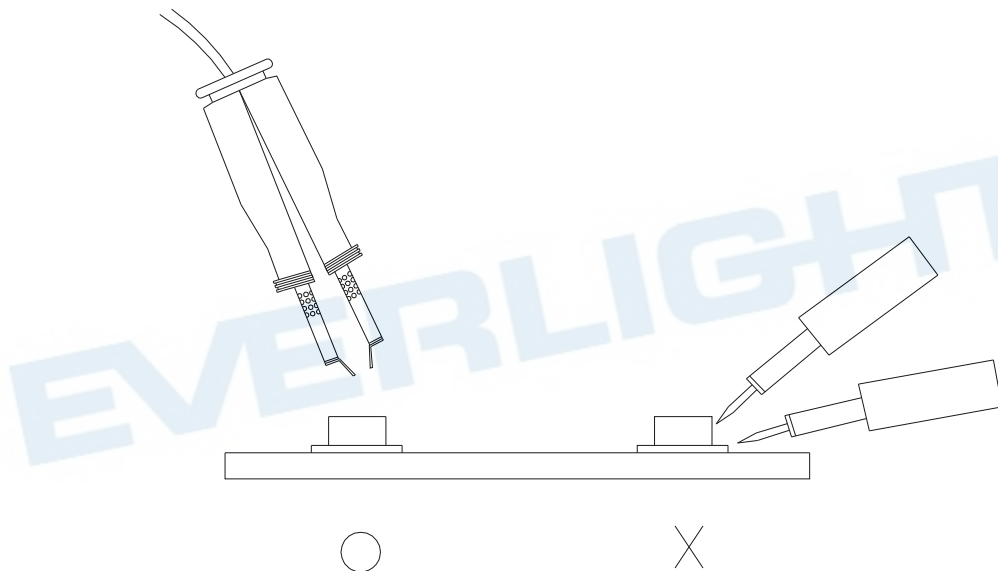
67-22SURSYGC/S530-A2/TR8

4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350°C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

5. Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.



6. 吸嘴的尺寸參數

SMT 機型：亞馬哈 YS12

吸嘴型號：504(金屬材質)&505(橡膠材質)

向下參數內縮，廠內驗是由 0.5mm-->0.3mm

Technical Data Sheet

Bi-Color (Multi-Color) Top View LEDs

67-22SURSYGC/S530-A2/TR8

DISCLAIMER

1. EVERLIGHT reserves the right(s) on the adjustment of product material mix for the specification.
2. The product meets EVERLIGHT published specification for a period of twelve (12) months from date of shipment.
3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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6. This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or life saving applications or any other application which can result in human injury or death. Please contact authorized Everlight sales agent for special application request.

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<http://www.everlight.com>