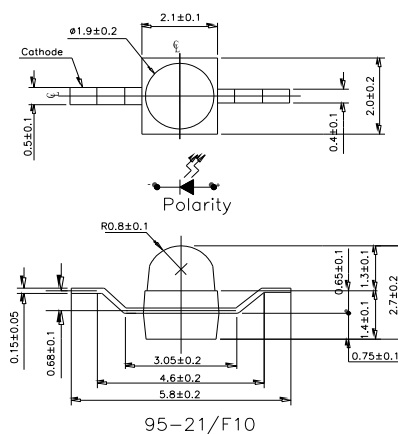
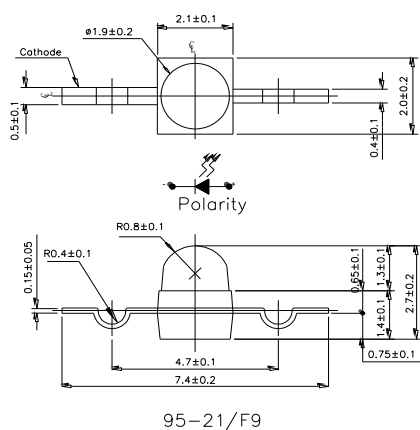
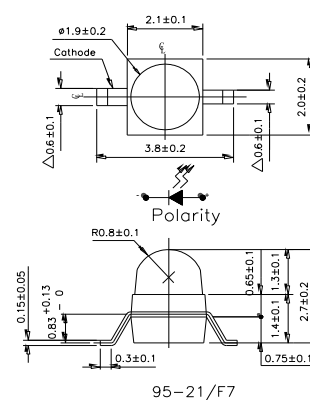
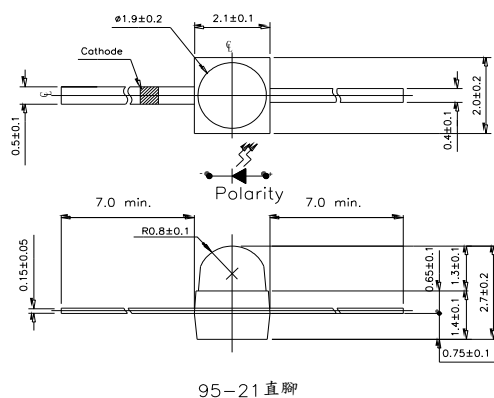
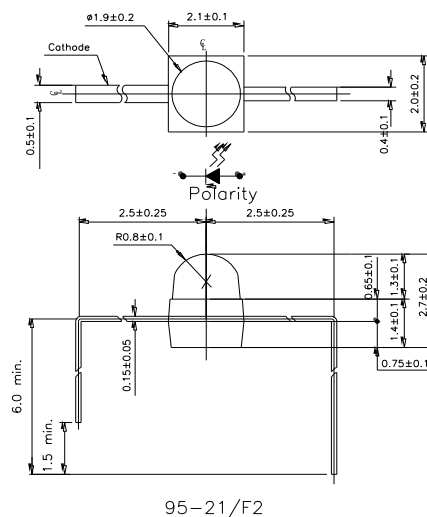
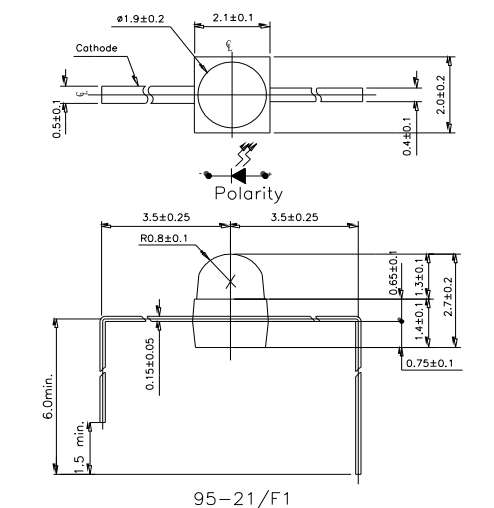


95-21SYGC/S530-XX/XXX

Package Outline Dimensions

95-21 Series



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$,Unit = mm

95-21SYGC/S530-XX/XXX

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	25	mA
Peak Forward Current (Duty 1/10 @ 1KHz)	I _{FP}	60	mA
Power Dissipation	P _d	60	mW
Electrostatic Discharge(HBM)	ESD	2000	V
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature	T _{sol}	Reflow Soldering : 260 °C for 10 sec. Hand Soldering : 350 °C for 3 sec.	

95-21SYGC/S530-XX/XXX

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Chip Rank	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	I _v	E1	----	12	----	mcd	IF=2mA
		E2	----	20	----	mcd	
		E1	132	198	----	mcd	IF=20mA
		E2	264	330	----	mcd	
		E3	400	630	----	mcd	
Viewing Angle	2θ 1/2	----	----	25	----	deg	
Peak Wavelength	λ _p	----	----	575	----	nm	
Dominant Wavelength	λ _d	----	----	573	----	nm	
Spectrum Radiation Bandwidth	△λ	----	----	20	----	nm	
Forward Voltage	V _F	----	1.7	2.0	2.4	V	
Reverse Current	I _R	----	----	----	10	μA	V _R =5V

*95-21SYGC/S530-XX / XXX
1 2

1:Chip Rank

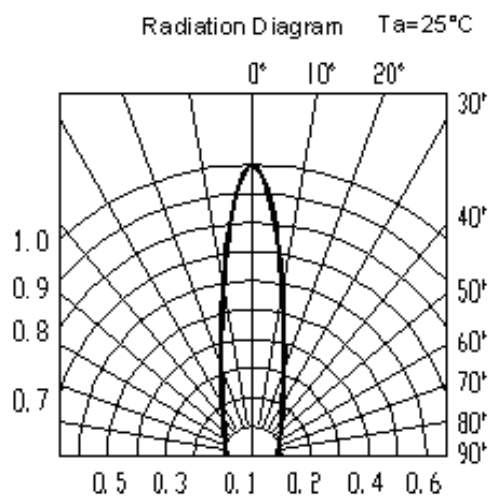
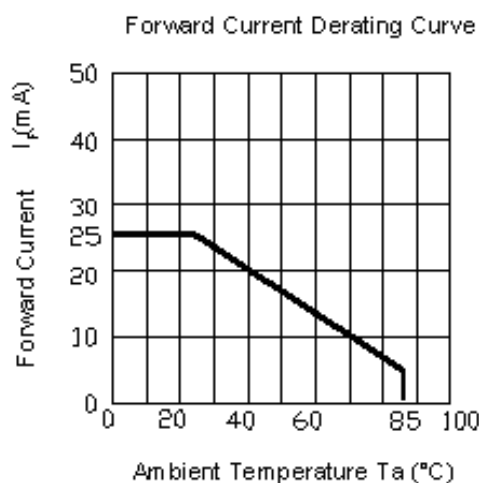
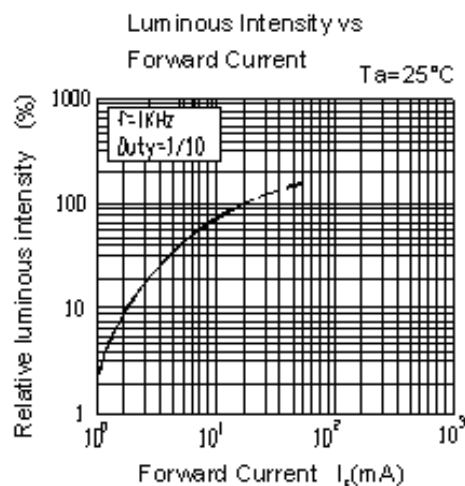
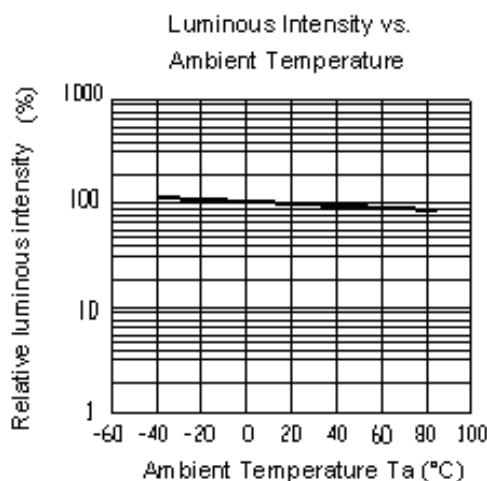
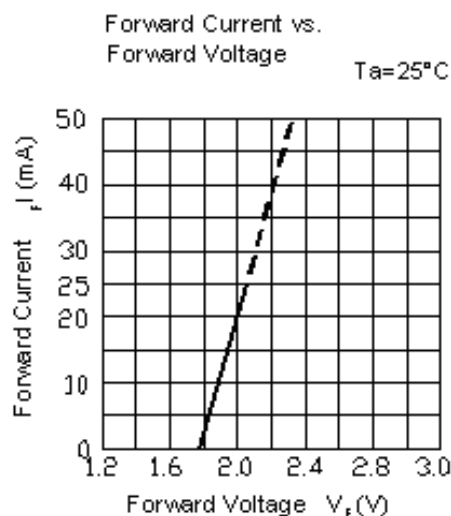
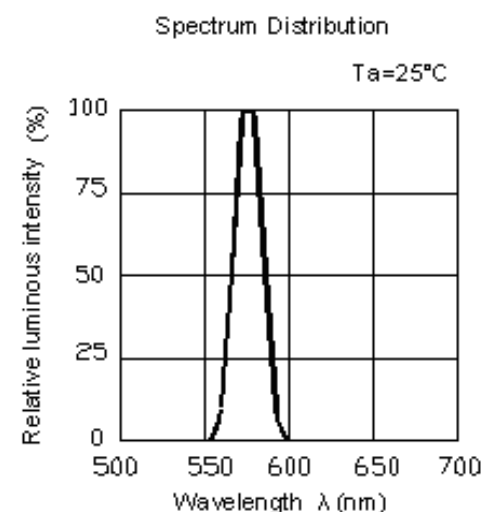
2:Packing Method:

(1) None,F1,F2, F7,F9,F10 : Bulk

(2) TR7,TR9,TR10 : Taping

95-21SYGC/S530-XX/XXX

Typical Electro-Optical Characteristics Curves



95-21SYGC/S530-XX/XXX

Label explanation

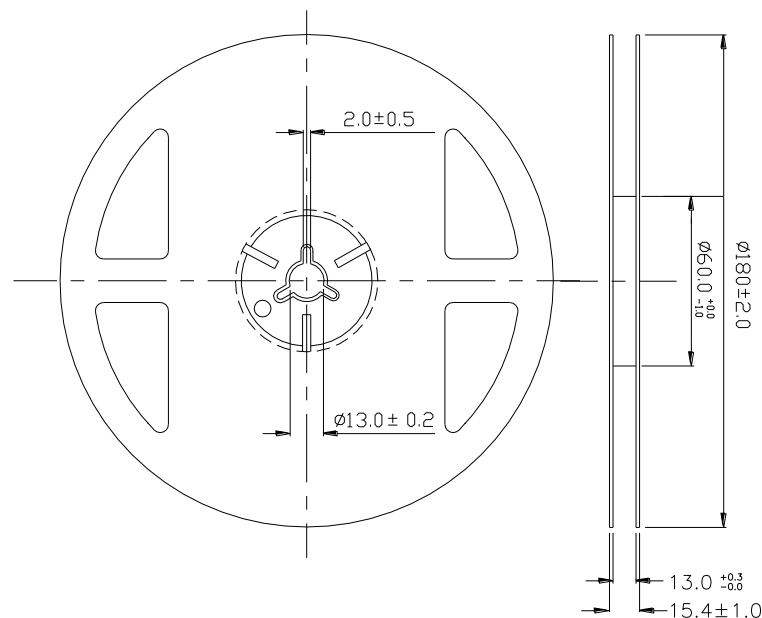
CAT: Luminous Intensity Rank

HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank



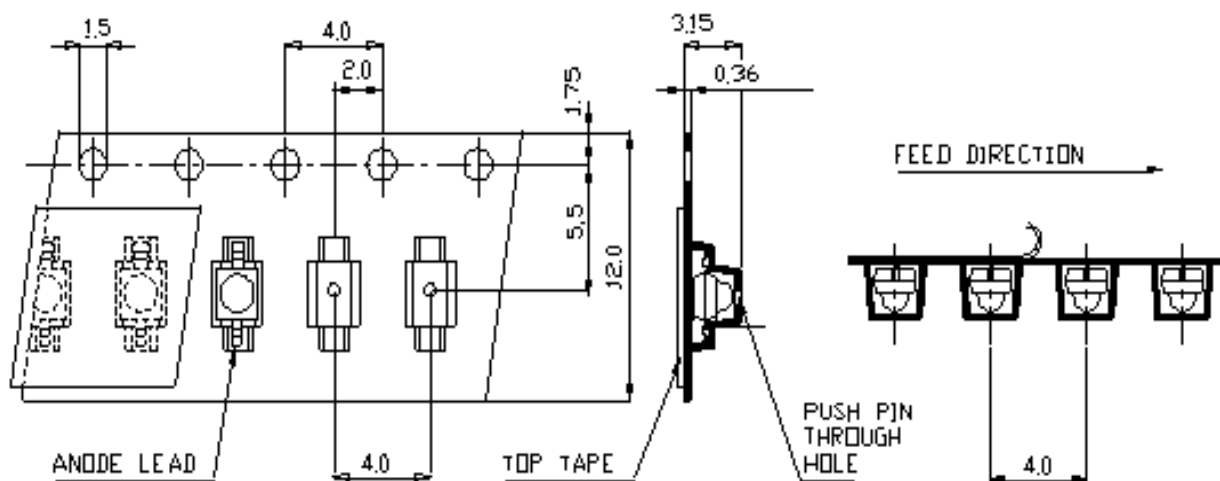
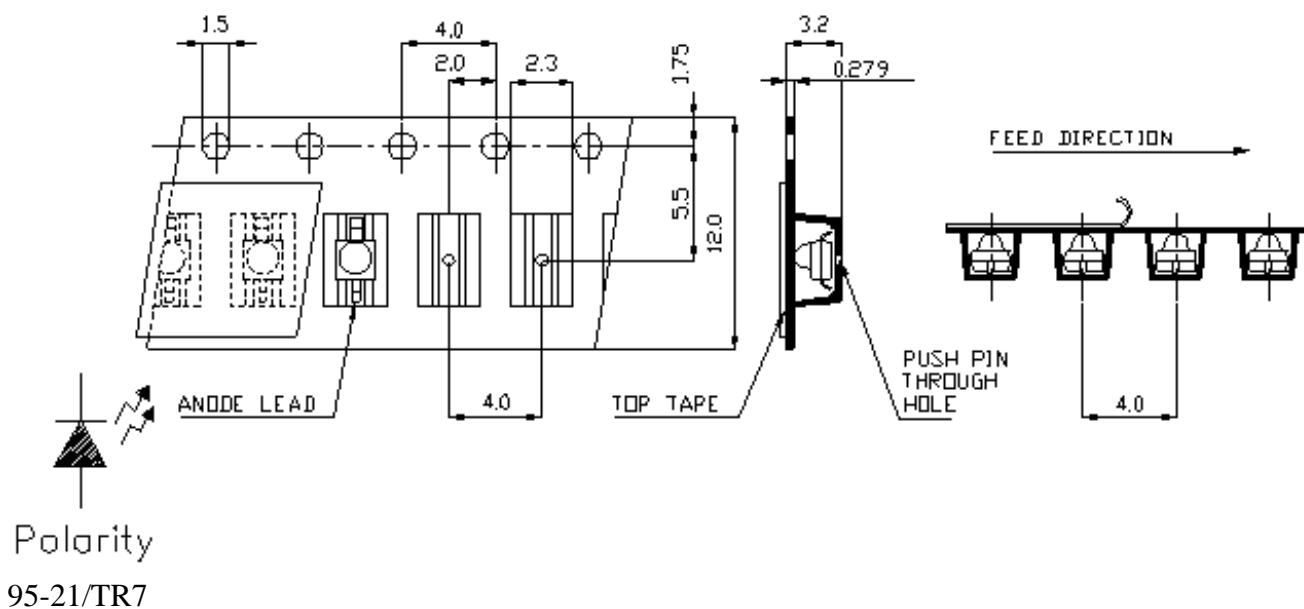
Reel & Carrier Tape Dimensions



Note: Tolerances Unless Dimension is $\pm 0.1\text{mm}$, Unit = mm

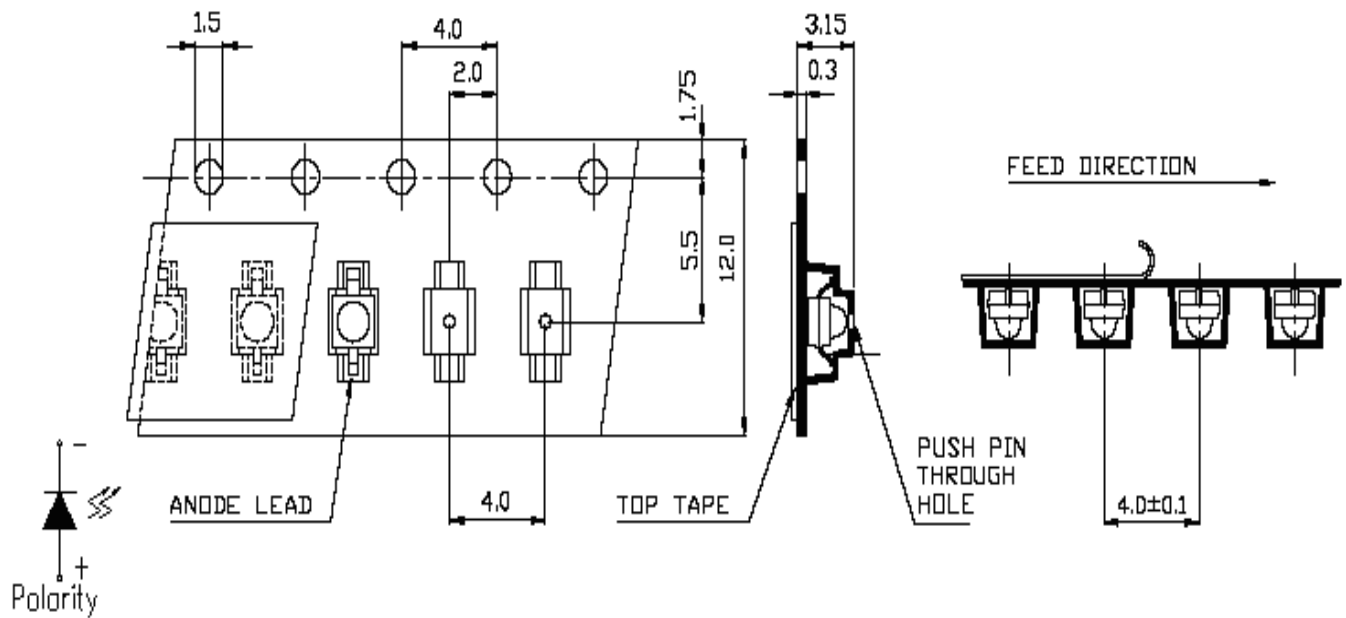
95-21SYGC/S530-XX/XXX

Loaded quantity 1000 PCS per reel



95-21/TR9

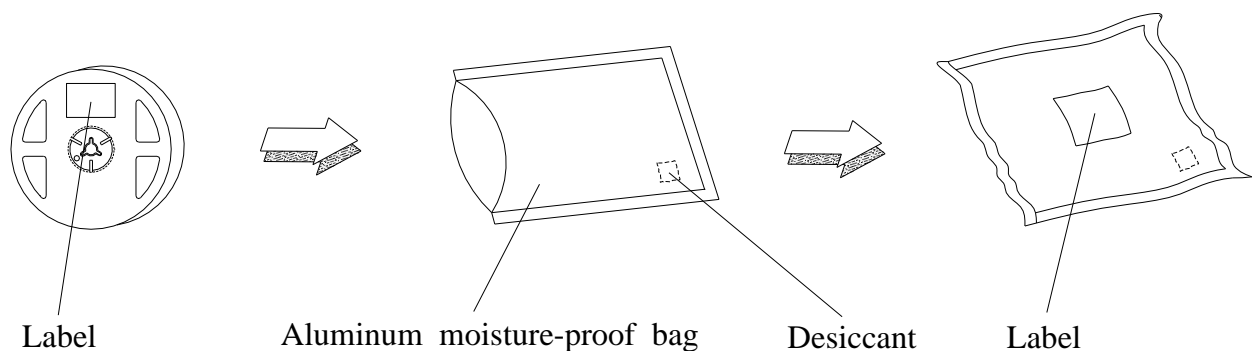
Loaded quantity 1000 PCS per reel



95-21/TR10

Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$,Unit = mm

Moisture Resistant Packaging



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 Min. 5 sec.	6 Min.	22 Pcs.	0/1
2	Temperature Cycle	H : +100°C 15 min. ∫ 5 min. L : -40°C 15 min.	300 Cycles	22 Pcs.	0/1
3	Thermal Shock	H : +100°C 5 min. ∫ 10 sec. L : -10°C 5 min.	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	IF = 20 mE	1000 Hrs.	22 Pcs.	0/1
7	High Temperature / High Humidity	85°C / 85% RH	1000 Hrs.	22 Pcs.	0/1

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.

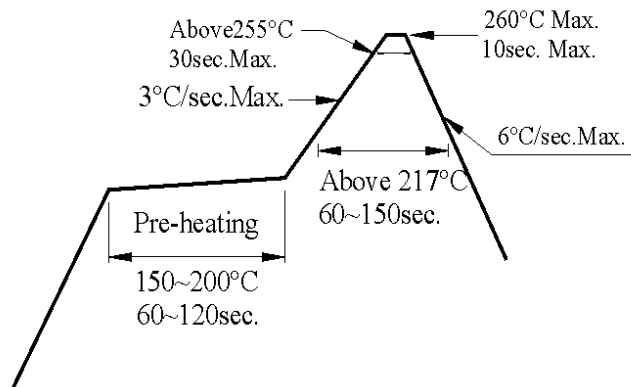
2.3 After opening the package: The LED's floor life is 1 year under 30°C or less and 60% RH or less.

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.

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.

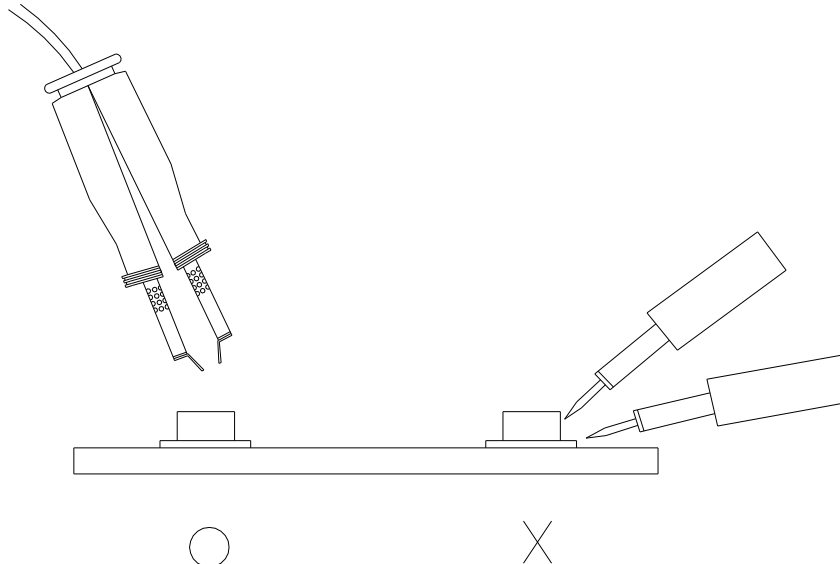
3.4 After soldering, do not warp the circuit board.

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.



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