

Technical Data Sheet

1.6mm round Subminiature Side Looking Infrared LED

IR26-61C/L510/R/2R

Features

- Small double-end package
- Low forward voltage
- Good spectral matching to Si photo detector
- Package in 12mm tape on 7" diameter reel.
- Pb free
- The product itself will remain within RoHS compliant version.
- Compliance with EU REACH.
- Compliance Halogen Free .(Br <900 ppm ,Cl <900 ppm , Br+Cl < 1500 ppm)

Description

• IR26-61C/L510/R/2R is an infrared emitting diode in miniature SMD package which is molded in a water clear plastic with spherical top view lens. The device is spectrally matched with silicon photodiode and phototransistor

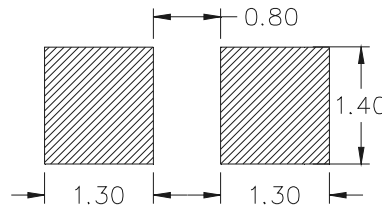
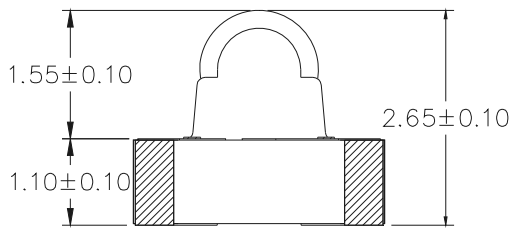
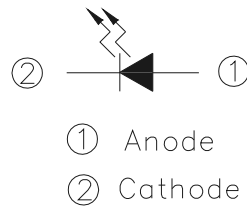
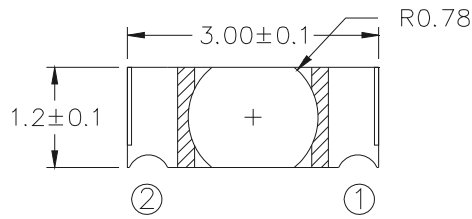
Applications

- Infrared applied system

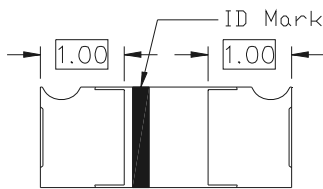
Device Selection Guide

Device No.	Chip Material	Lens Color
IR26-61C/L510/R/2R	GaAlAs	Water Clear

Package Dimensions



Recommended Soldering Pattern
for Top Looker



- Notes:** 1.All dimensions are in millimeters
2.Tolerances unless dimensions ± 0.1 mm

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I _F	50	mA
Peak Forward Current *1	I _{FP}	500	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-40 ~ +100	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature *2	T _{sol}	260	°C
Power Dissipation at(or below) 25°C Free Air Temperature	P _c	100	mW

Notes: *1: I_{FP} Conditions--Pulse Width $\leq 100\mu\text{s}$ and Duty $\leq 1\%$.

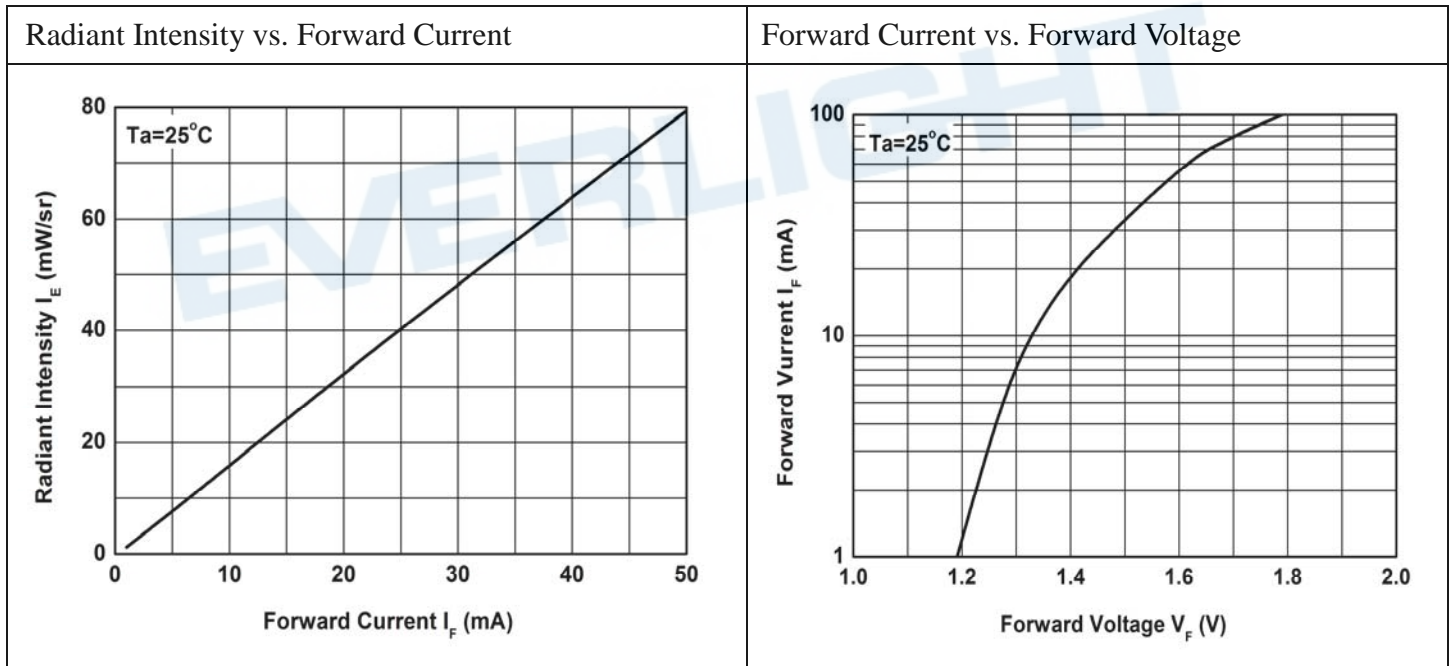
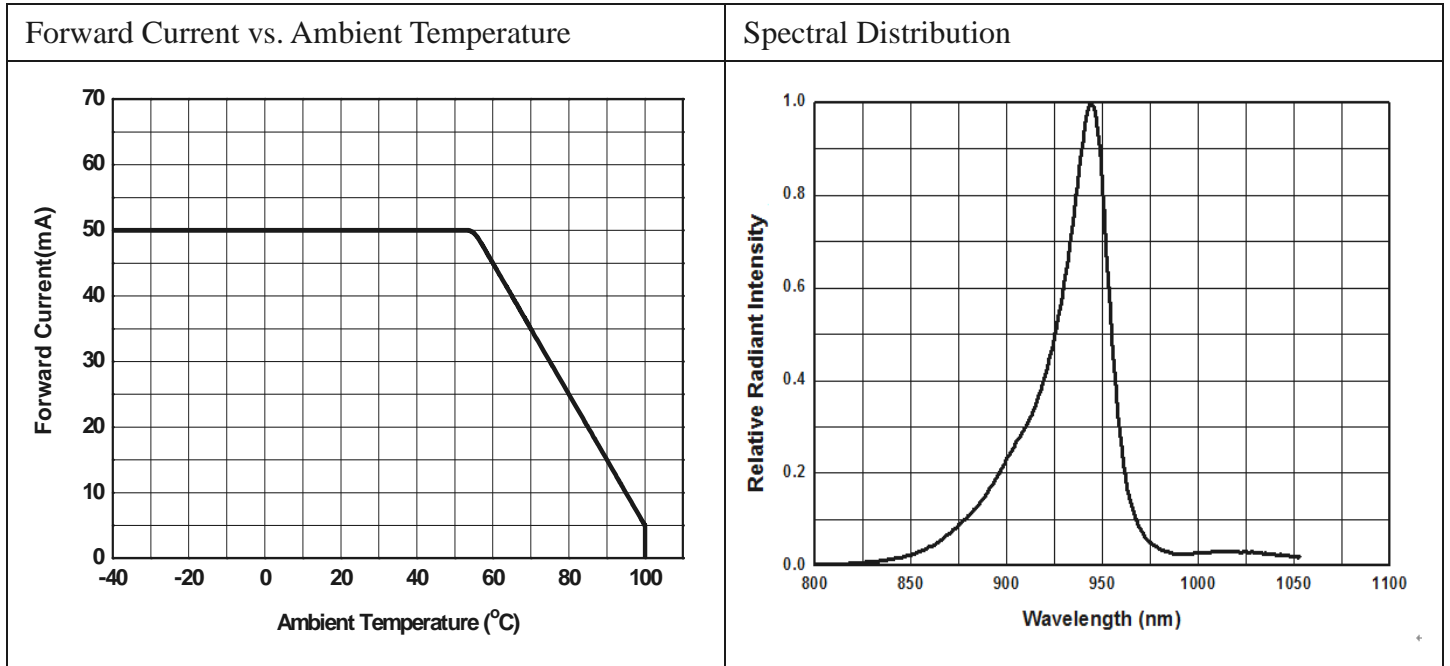
***2: Soldering time ≤ 5 seconds.**

Electro-Optical Characteristics (Ta=25°C unless specified otherwise)

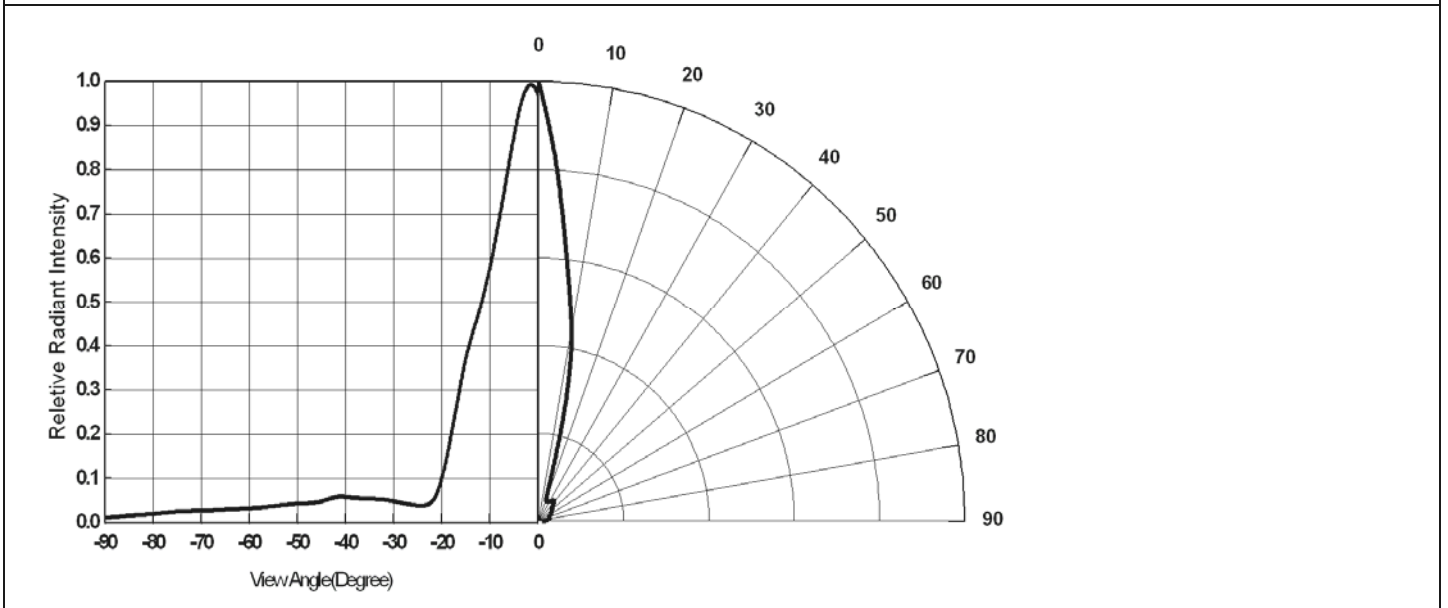
Parameter	Symbol	Min.	Typ.*	Max.	Unit	Condition
Radiant Intensity *1	I _E	10.0	24.0	--	mW/sr	I _F =20mA
		40	--	90	mW/sr	I _F =70mA, tp=20ms
Peak Wavelength	λ _p	--	940	--	nm	I _F =20mA
Spectral Bandwidth	Δλ	--	30	--	nm	I _F =20mA
Forward Voltage	V _F	--	1.20	1.50	V	I _F =20mA
		--	1.30	1.60	V	I _F =70mA, tp=20ms
Reverse Current	I _R	--	--	10	μA	V _R =5V
View Angle	2θ _{1/2}	--	20	--	Deg.	I _F =20mA

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Typical Electrical/Optical/Characteristics Curves



Relative Radiant Intensity vs. Angular Displacement



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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 60%RH or less.

2.3 The LEDs should be used within a year.

2.4 After opening the package, the LEDs should be kept at 30°C or less and 60%RH or less.

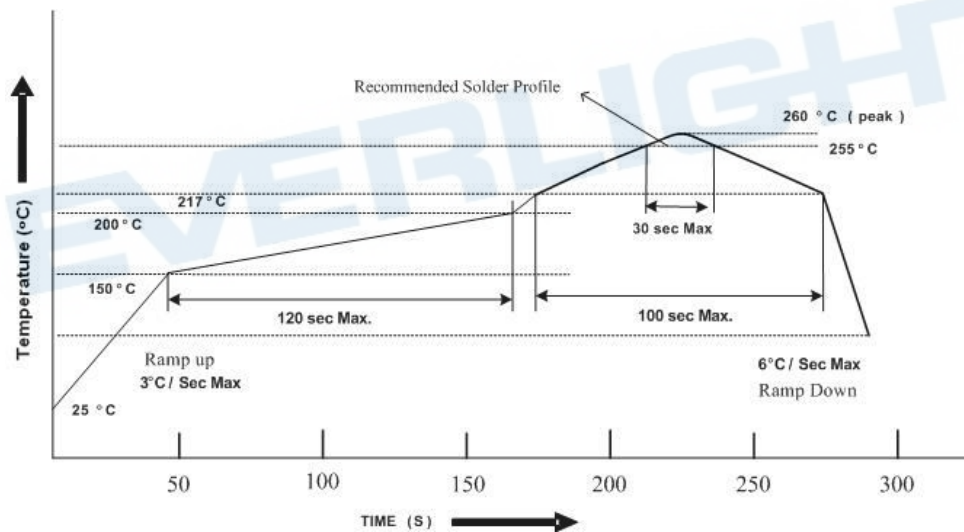
2.5 The LEDs should be used within 168 hours (7 days) after opening the package

2.6 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 Min. 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.

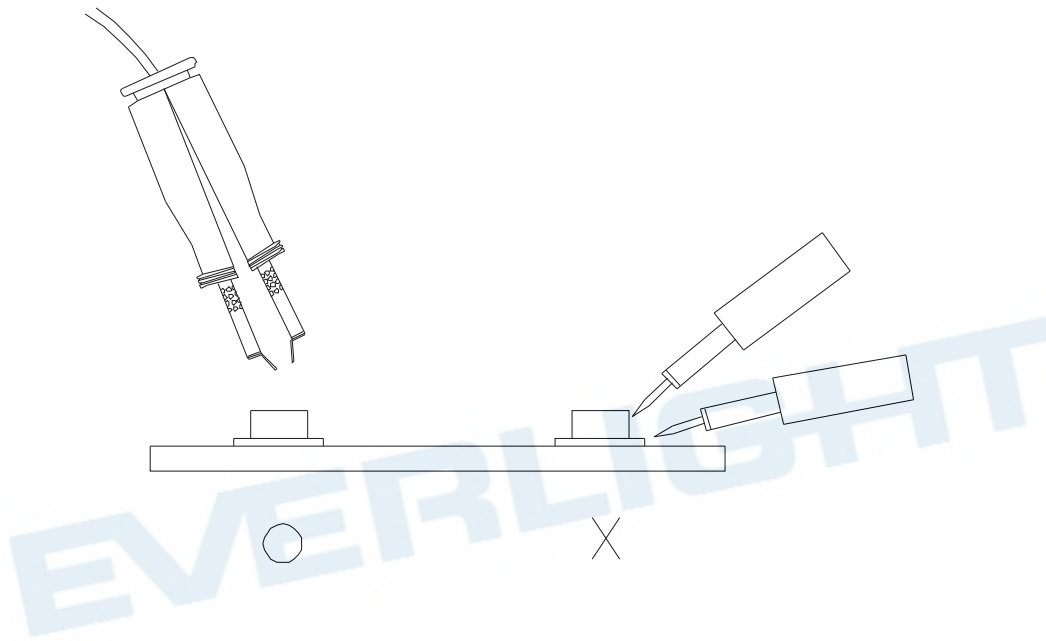
3.4 After soldering, do not warp the circuit board.

4. Soldering Iron

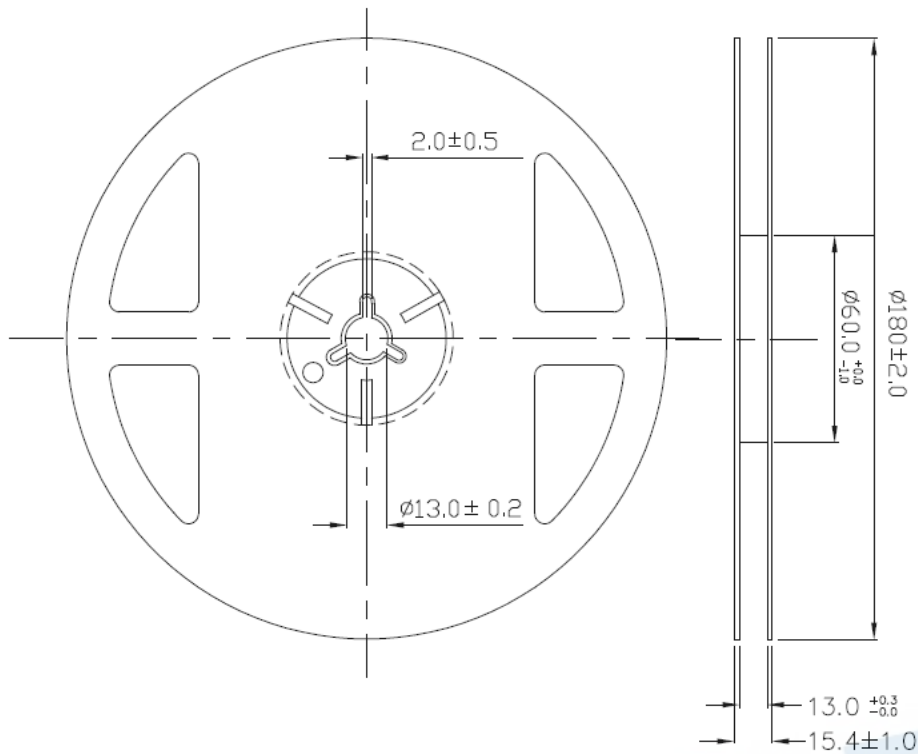
Each terminal is to go to the tip of soldering iron temperature less than 350°C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of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

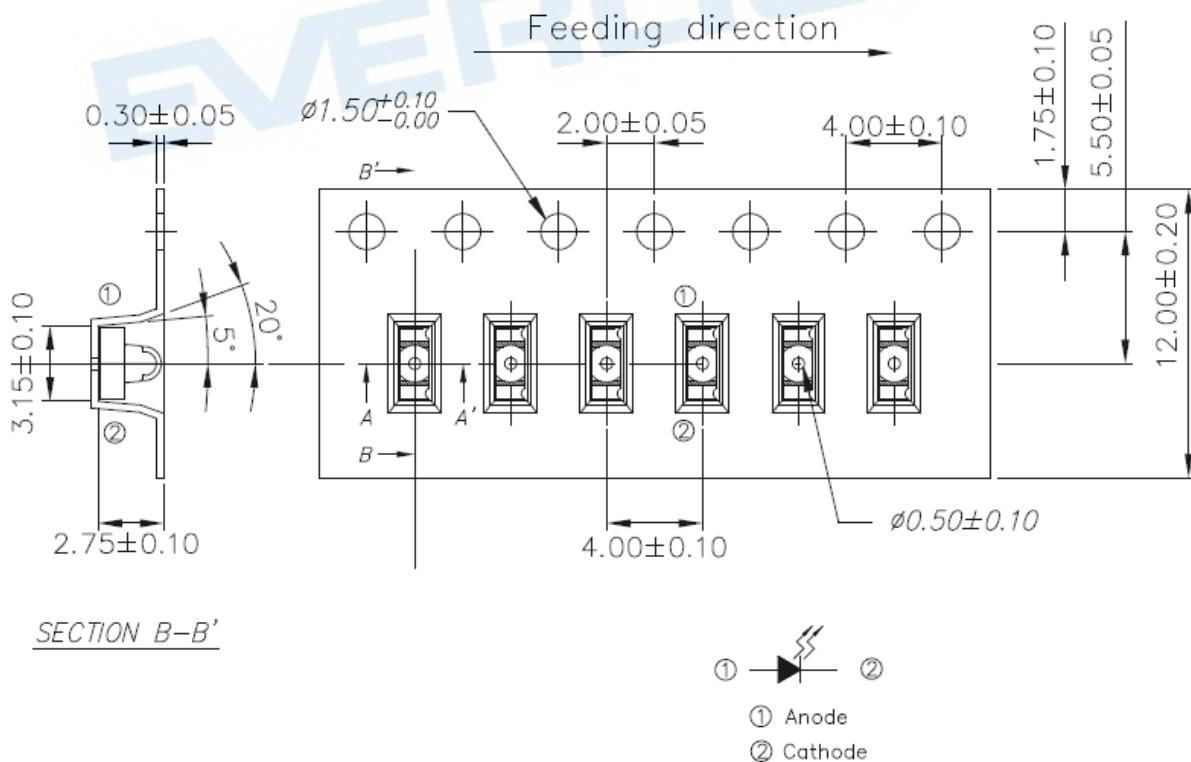


Package Dimensions



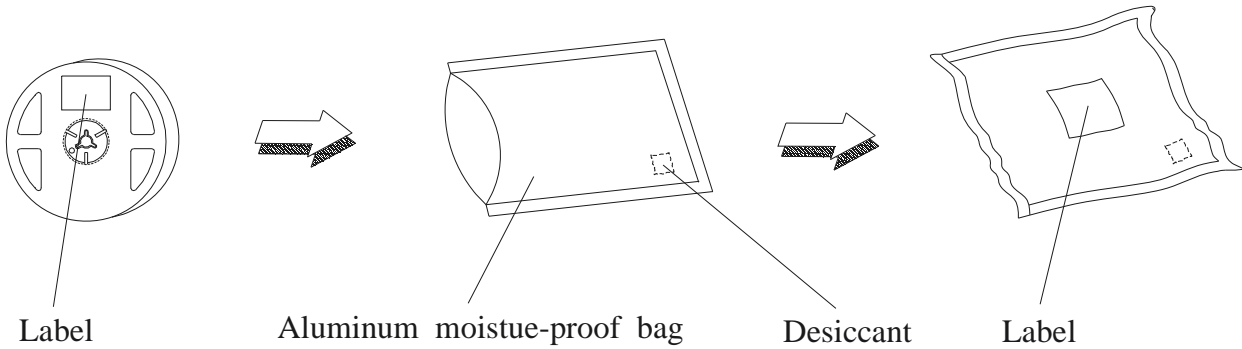
Note: The tolerances unless mentioned is ± 0.1 mm ,Unit = mm

Carrier Tape Dimensions : (Quantity: 1500pcs/reel)

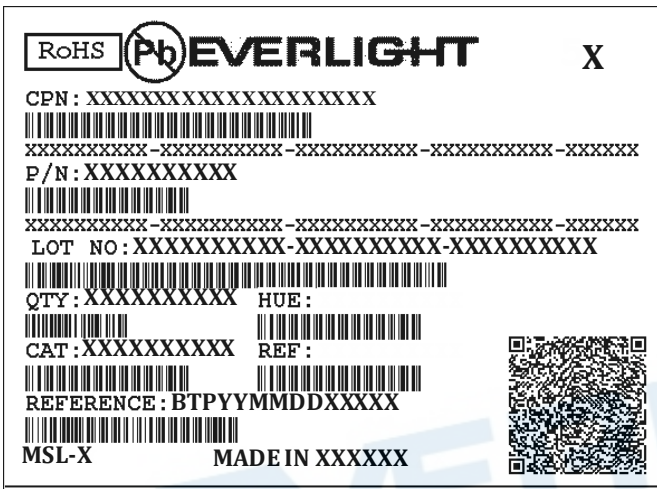


Note: The tolerances unless mentioned is ± 0.1 mm ,Unit = mm

Packing Procedure



Label Form Specification



CPN: Customer's Production Number
 P/N : Production Number
 QTY: Packing Quantity
 CAT: Ranks
 HUE: Peak Wavelength
 REF: Reference
 LOT No: Lot Number
 MADE IN TAIWAN: Production Place

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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单击下面可查看定价，库存，交付和生命周期等信息

[>>Everlight \(亿光\)](#)