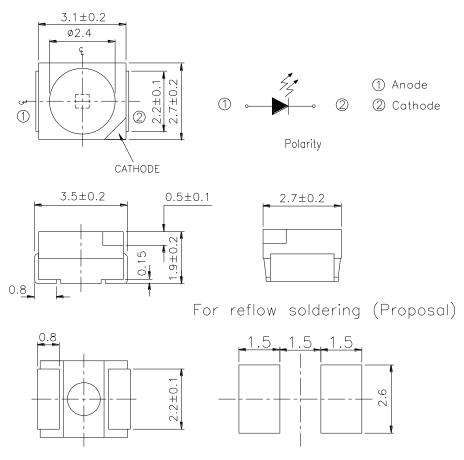
## **Package Dimensions**



**Notes:** 1.All dimensions are in millimeters

2. Tolerances unless dimensions ±0.1mm

### **Absolute Maximum Ratings (Ta=25℃)**

Parameter	Symbol	Rating	Unit
Continuous Forward Current	$I_{\mathrm{F}}$	65	mA
Peak Forward Current *1	$I_{FP}$	1.0	A
Reverse Voltage	$V_R$	5	V
Operating Temperature	$T_{opr}$	-40 ~ +85	$^{\circ}\mathbb{C}$
Storage Temperature	$T_{stg}$	-40 ~ +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature *2	$T_{sol}$	260	$^{\circ}\mathbb{C}$
Power Dissipation at(or below)	P <sub>d</sub>	130	mW
25°C Free Air Temperature			
Temperature resistance junction ambient	Rthj-a	400	K/W

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

\*2: Soldering time ≤ 5 seconds.

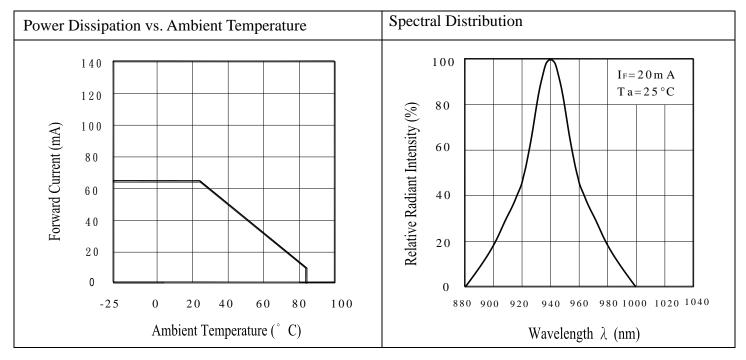


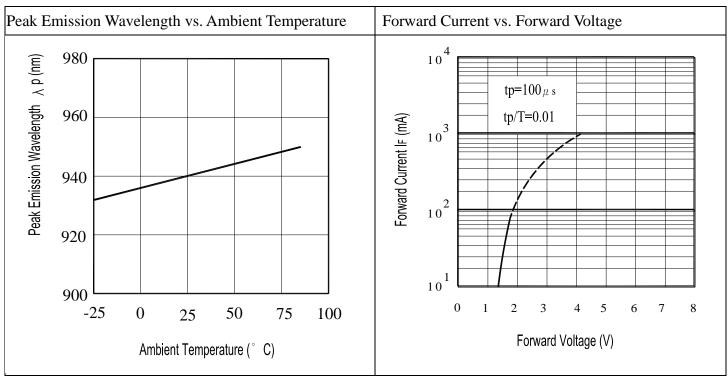
# **Electro-Optical Characteristics (Ta=25°C)**

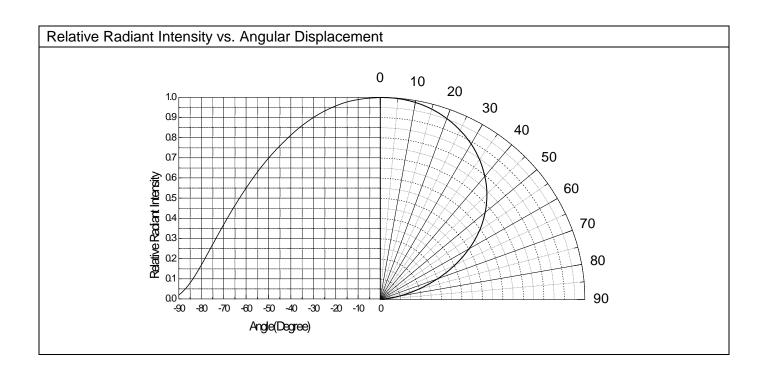
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Radiant Intensity Ie	<b>T</b>	1.0	1.5		<b>XX</b> 7 /	I <sub>F</sub> =20mA
	4	8	20	mW /sr	. $I_F\!\!=\!\!100mA$ Pulse Width $\!\leq\!100\mu$ s ,Duty $\!\leq\!1\%$	
Peak Wavelength	λр		940		nm	$I_F=100mA$
Spectral Bandwidth	Δλ		45		nm	I <sub>F</sub> =100mA
Forward Voltage	$\mathbf{V}_{\mathrm{F}}$		1.2	1.5	V	I <sub>F</sub> =20mA
			1.4	1.8		$I_F\!\!=\!\!100mA$ Pulse Width $\leq 100\mu$ s ,Duty $\leq 1\%$
Reverse Current	$I_R$			10	μА	$V_R=5V$
View Angle	2θ1/2		120		deg	I <sub>F</sub> =20mA



### Typical Electrical/Optical/Characteristics Curves for IR









#### 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).

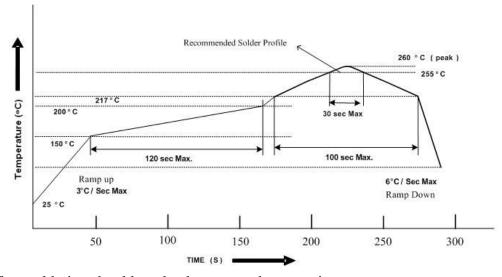
### 2. Storage

- 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 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 70%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 :  $60\pm5^{\circ}$ 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.

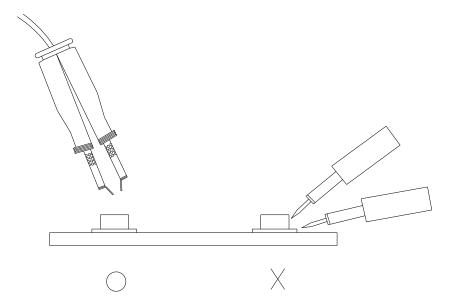


#### 4. Soldering Iron

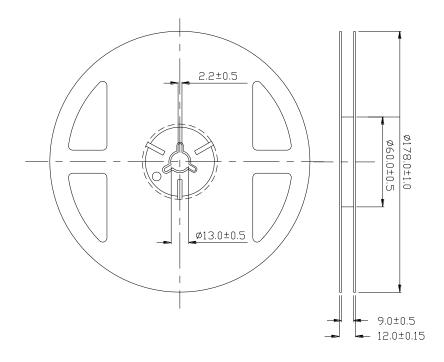
Each terminal is to go to the tip of soldering iron temperature less than 350°C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of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

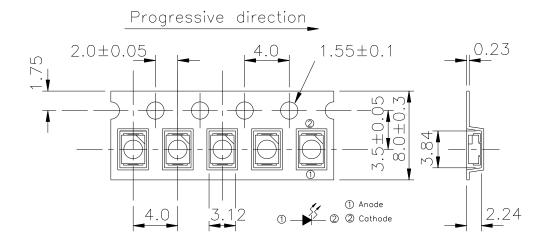


# **Package Dimensions**



**Note:** The tolerances unless mentioned is  $\pm 0.1$ mm, Unit = mm

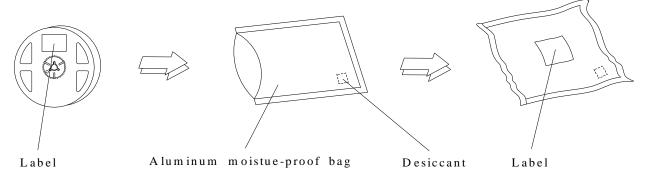
### 2. Carrier Tape Dimensions:(Quantity: 2000pcs/reel)



TOLERANCES UNLESS DIMENSION±0.1 ANGLE±0.5 UNIT:mm

**Note:** The tolerances unless mentioned is  $\pm 0.1$ 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

#### **Notes**

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- 2. 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 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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