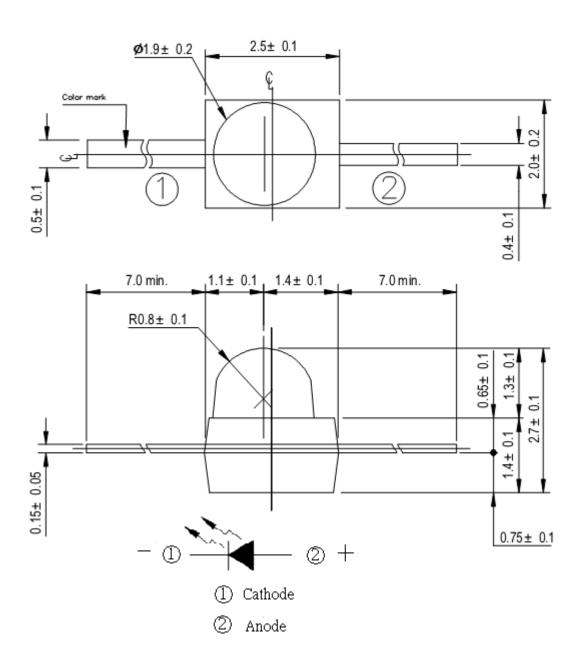


### **Package Dimensions**



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

2.Tolerances unless dimensions ±0.1mm



# Absolute Maximum Ratings (Ta=25 $^{\circ}$ C)

Parameter	Symbol	Rating	Units	
Continuous Forward Current	${ m I_F}$	65	mA	
Peak Forward Current	$I_{FP}$	1.0	A	
Reverse Voltage	$V_R$	5	V	
Operating Temperature	$T_{opr}$	-25 ~ +85	$^{\circ}\!\mathbb{C}$	
Storage Temperature	$T_{stg}$	-40 ~ +85	$^{\circ}\!\mathbb{C}$	
Soldering Temperature *1	$T_{sol}$	260	$^{\circ}\!\mathbb{C}$	
Power Dissipation at(or below)	$P_d$	130	mW	
25°C Free Air Temperature				

**Notes:** \*1: Soldering time  $\leq 5$  seconds.

# Electro-Optical Characteristics (Ta=25 $^{\circ}$ C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Radiant Intensity	Ie	I <sub>F</sub> =20mA	3.0	5.0		mW /sr
Peak Wavelength	λρ	I <sub>F</sub> =20mA		940		nm
Spectral Bandwidth	Δλ	I <sub>F</sub> =20mA		45		nm
Forward Voltage	$V_{\mathrm{F}}$	I <sub>F</sub> =20mA		1.2	1.5	V
Reverse Current	$I_R$	V <sub>R</sub> =5V			10	μΑ
View Angle	2 0 1/2	I <sub>F</sub> =20mA		25		deg



## **Typical Electro-Optical Characteristics Curves**

Fig.1 Forward Current vs.

Ambient Temperature

140 120100 Forward Current (mA) 80 60 40 20 0 0 20 40 60 80 100 -25 Ambient Temperature (°C)

Fig.3 Forward Current vs. Forward Voltage

Fig.2 Spectral Distribution

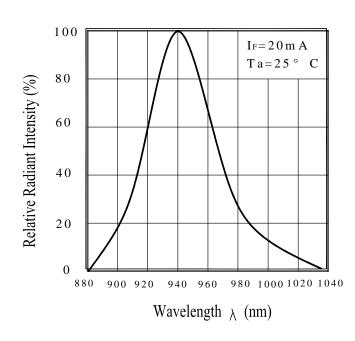
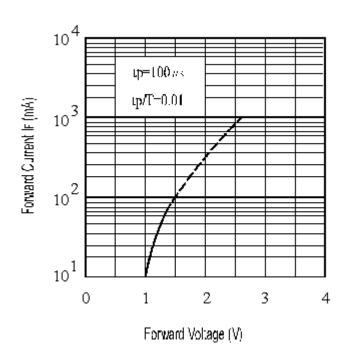
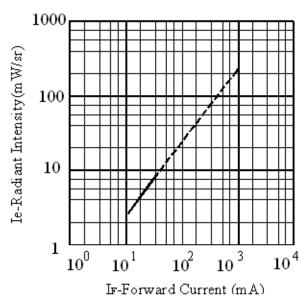


Fig.4 Relative Intensity vs.

Forward Current

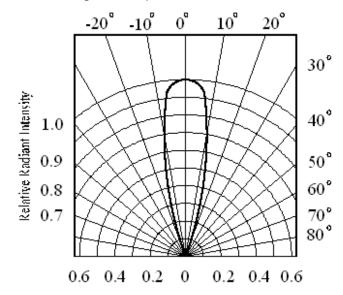




## **Typical Electro-Optical Characteristics Curves**

Fig.5 Relative Radiant Intensity vs.

**Angular Displacement** 





#### **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).

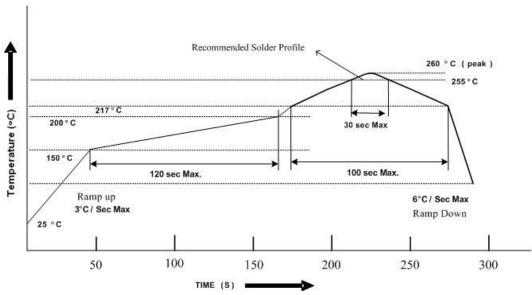
#### 2. Storage

- 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.

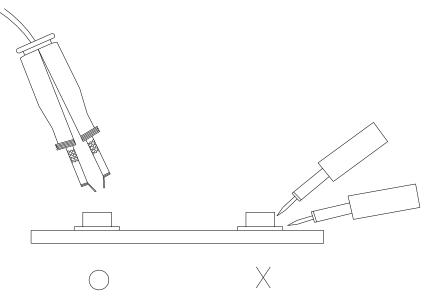


- 3.4 After soldering, do not warp the circuit board.
- 4. Soldering Iron

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.

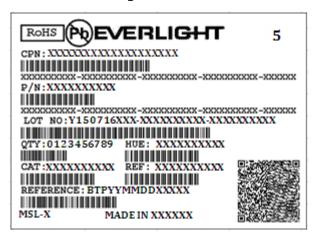




### **Packing Quantity Specification**

1000PCS/1Bag

### **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

#### **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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