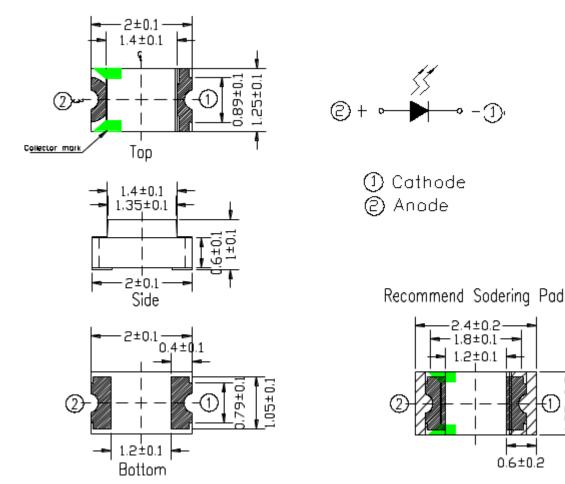
ų

5±0.

Package Dimensions



- Notes: 1.All dimensions are in millimeters
 - 2.Tolerances unless dimensions ±0.1mm
 - 3.Suggested pad dimension is just for reference only Please modify the pad dimension based on individual need

Parameter	Symbol	Rating	Units	
Continuous Forward Current	I _F	65	mA	
Reverse Voltage	V_{R}	5	V	
Operating Temperature	T _{opr}	-25 ~ +85	°C	
Storage Temperature	T _{stg}	-40 ~ +85	°C	
Soldering Temperature*1	T _{sol}	260	°C	
Power Dissipation at (or below) 25° C Free Air Temperature	P _d	130	mW	

Notes: *1: Soldering time \leq 5 seconds

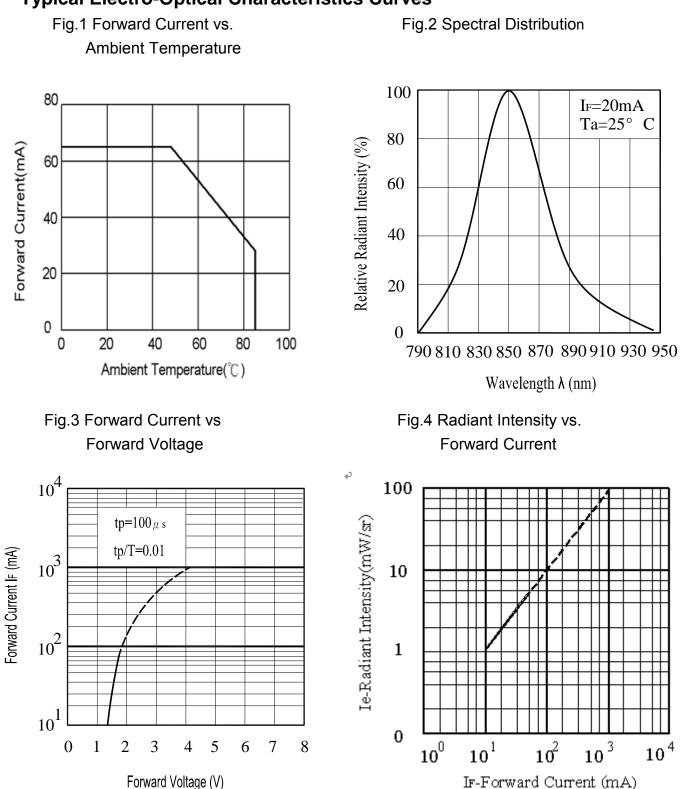
Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Units
Radiant Intensity	le	I _F =20mA	1.60	2.10	3.20	mW/sr
Peak Wavelength	λр	I _F =20mA		850		nm
Spectral Bandwidth	Δλ	I _F =20mA		30		nm
Forward Voltage	V_{F}	I _F =20mA	1.20	1.40	1.70	V
Reverse Current	I _R	V _R =5V			10	μA
View Angle	201/2	I _F =20mA		120		deg

Radiant Intensity Specifications for Bin Grading

Rank	Condition	Min.	Max.	Units
А	I _F =20mA	1.60	2.04	
В		1.96	2.45	
С		2.35	2.85	mW/sr
D		2.74	3.20	

Notes: This bin table is only for reference, not for specific bin shipment.



Typical Electro-Optical Characteristics Curves

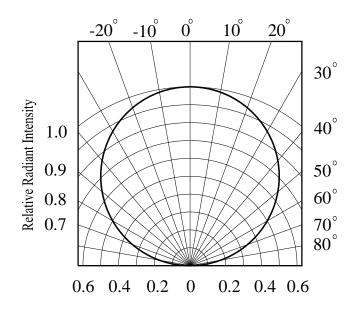
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Typical Electro-Optical Characteristics Curves

Fig.5 Relative Radiant Intensity vs.

Angular Displacement



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Precautions For Use

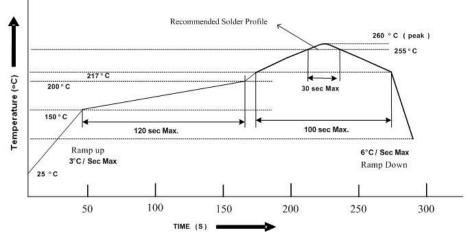
1. Over-current-proof

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 $10^\circ\!C\text{--}30^\circ\!C$ and 90%RH or less.
 - 2.3 The LEDs suggested be used within one year.
 - 2.4 After opening the package, the devices must be stored at 10°C~30°C and ≤ 60%RH, and used within 168 hours (floor life). If unused LEDs remain, it should be stored in moisture proof packages.
 - 2.5 If the moisture absorbent material (desiccant material) has faded or unopened bag has exceeded the shelf life or devices (out of bag) have exceeded the floor life, baking treatment is required.
 - 2.6 If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure or recommend the following conditions:

96 hours at 60°C ± 5°C and < 5 % RH (reeled/tubed/loose units)

- 3. Soldering Condition
 - 3.1 Pb-free solder temperature profile



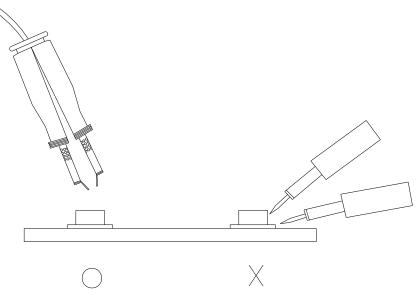
- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.

4.Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350 $^{\circ}$ 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.

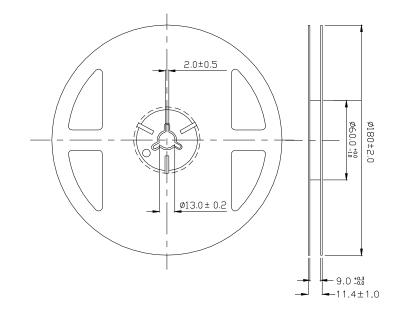
5.Repairing

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.



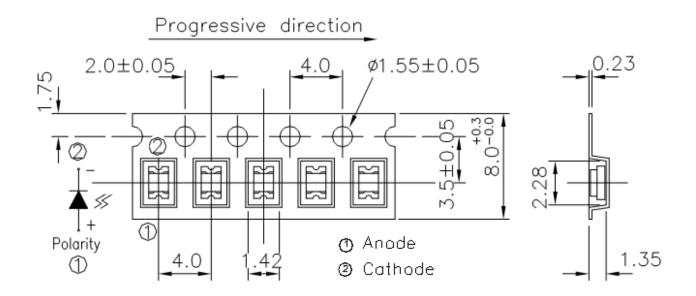


Package Dimensions



Note: The tolerances unless mentioned are ±0.1mm, Unit: mm

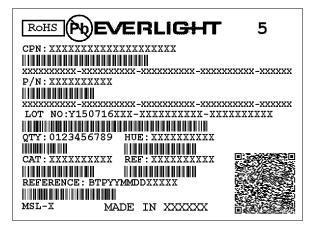
Carrier Taping Dimensions: (Quantity: 3000PCS/Reel)



Note: The tolerances unless mentioned are ±0.1mm, Unit: mm

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Label Form Specification



CPN: Customer's Production Number P/N : Production Number LOT No: Lot Number QTY: Packing Quantity HUE: Peak Wavelength CAT: Ranks REF: Reference MSL-X: MSL Level Made In: Manufacture place

Notes

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- 2. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
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