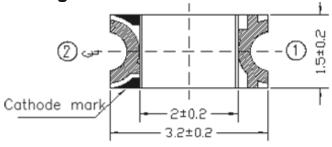
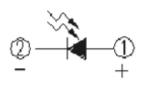
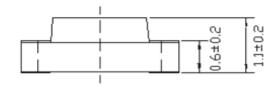
EVERLIGHT

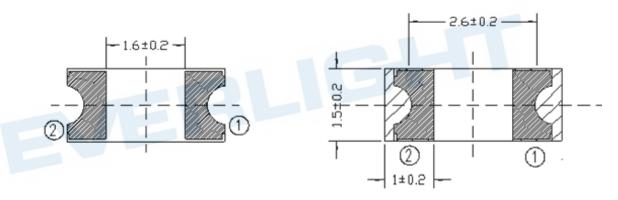
Package Dimensions







For reflow soldering(propose)



Notes: 1. Alldimensions 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

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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units				
Reverse Voltage	VR	32	V				
Operating Temperature	Topr	-25 ~ +85	$^{\circ}\!\mathbb{C}$				
Storage Temperature	Tstg	-40 ~ +85	$^{\circ}\!\mathbb{C}$				
Soldering Temperature *1	Tsol	260	$^{\circ}\!\mathbb{C}$				
Power Dissipation at(or below) 25°C Free Air Temperature	Pd	150	mW				

Notes: *1:Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Rang Of Spectral Bandwidth	λ 0.5		730		1100	nm
Wavelength Of Peak Sensitivity	λР			940		nm
Short-Circuit Current	Isc	Ee=1mW/cm2 λ P=940nm	1	0.8		μ A
Reverse Light Current	lL	Ee=1mW/cm2 λ P=940nm VR=5V	0.2	0.8		μΑ
Dark Current	lо	Ee=0mW/cm2 VR=10V			10	nA
Reverse Breakdown Voltage	Bvr	Ee=0mW/cm2 IR=100 μ A	32	170		٧

Typical Electro-Optical Characteristics Curves

Fig.1Power Dissipation vs. **Ambient Temperature**

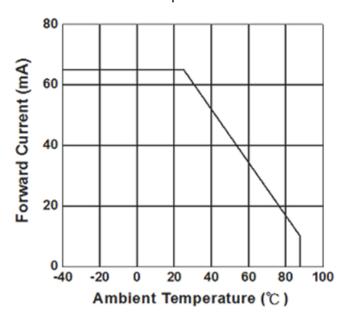


Fig.2 Spectral Sensitivity

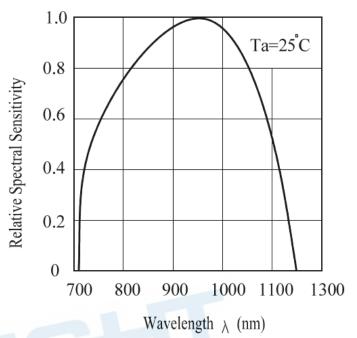


Fig.3 Dark Current vs. **Ambient Temperature**

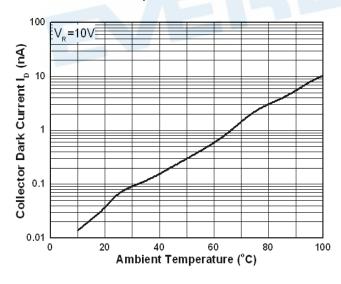


Fig.4 Reverse Light Current vs. Ee

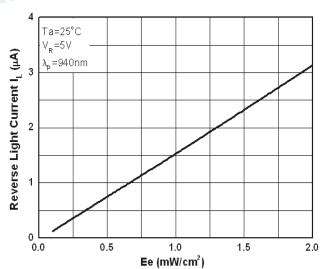
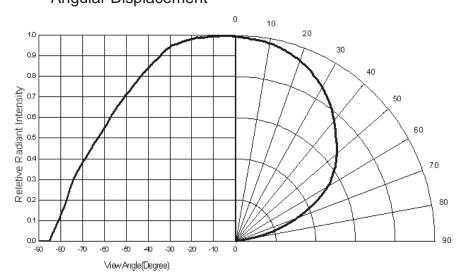


Fig.5 Relative Radiant Intensity vs. **Angular Displacement**





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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).

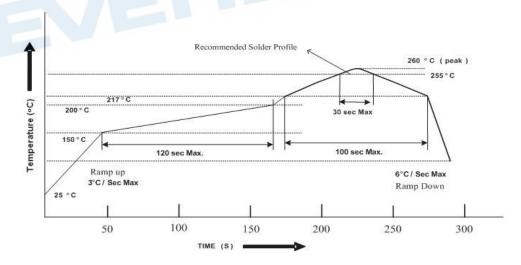
Storage

- 2.1 Do not open moisture proof bag before the products are ready to use.
- 2.2 Before opening the package, the Phototransistor should be kept at 10°C ~30°C and 90%RH or less.
 - 2.3 The Phototransistor suggested be used within one year.
 - 2.4 After opening the package, the devices must be stored at 10° C ~ 30° C and \leq 60%RH, and used within 168 hours (floor life). If unused Phototransistor remain, it should be stored in moisture proof packages.
- 2.5 If the moisture absorbent material (desiccant material) has faded or unopened bag has excee 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° $\pm 5^{\circ}$ 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 Phototransistor during heating.
- 3.4 After soldering, do not warp the circuit board.

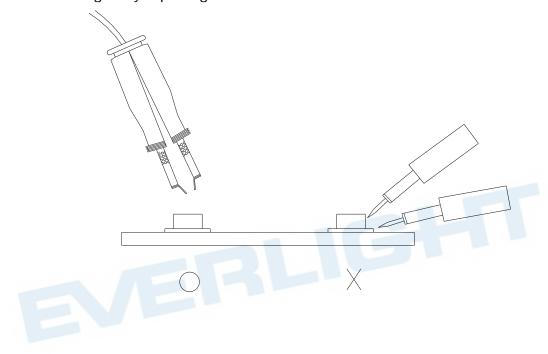


4. Soldering Iron

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.

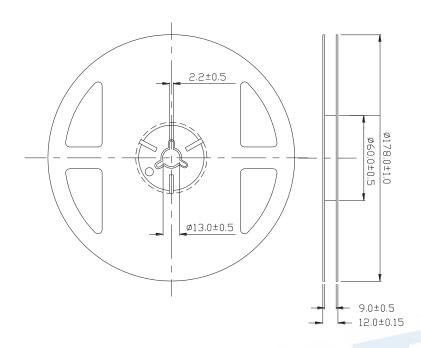
5. Repairing

Repair should not be done after the Photo Transister 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 Photo Transister will or will not be damaged by repairing.



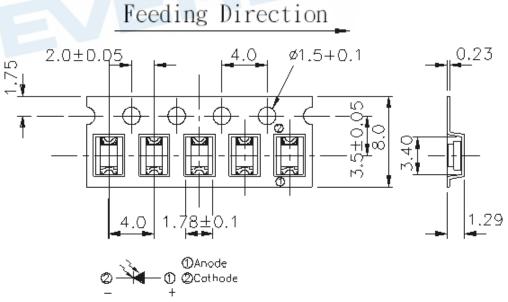


Package Dimensions



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

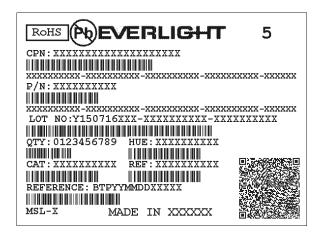
Carrier Tape Dimensions:(Quantity: 2000pcs/reel)



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



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

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 months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show quaranteed 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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- 6. This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or life saving applications or any other application which can result in human injury or death. Please contact authorized Everlight sales agent for special application request.

EVERLIGHT ELECTRONICS CO., LTD.

Tel: 886-2-2685-6688 Office: No. 6-8, Zhonghua Rd., Shulin Dist.,

New Taipei City 23860, Taiwan

Fax: 886-2685-2699, 6897

http://www.everlight.com

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