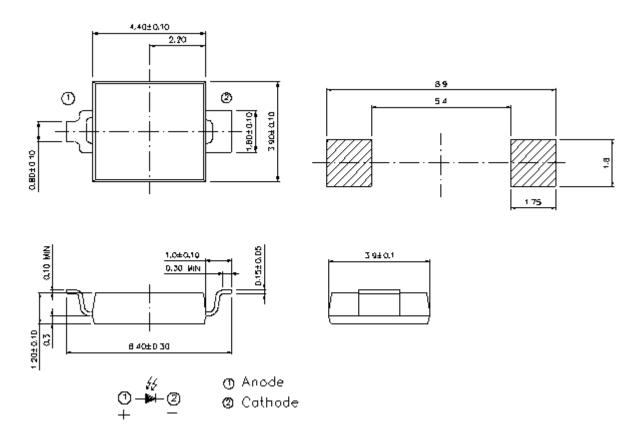


Package Dimensions



Notes: 1.All dimensions are in millimeters

2.Tolerances unless dimensions ±0.1mm

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units	
Reverse Voltage	V_{R}	32	V	
Operating Temperature	T_{opr}	-25 ~ +85	$^{\circ}$	
Storage Temperature	T_{stg}	-40 ~ +85	$^{\circ}\!\mathbb{C}$	
Soldering Temperature *1	T_{sol}	260	$^{\circ}\!\mathbb{C}$	
Power Dissipation at (or below) 25°C Free Air Temperature	P_d	150	mW	

Notes: *1: Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

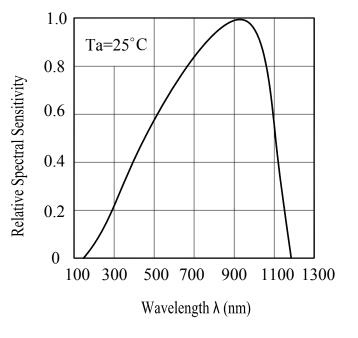
Parameter	Symbol	Condition	Min.	Тур.	Max.	Units			
Rang of Spectral Bandwidth	λ _{0.5}		400		1100	nm			
Wavelength of Peak Sensitivity	λ_{P}			940		nm			
Short- Circuit Current	I _{SC}	Ee=1mW/cm ² λp=875nm		35		μA			
Reverse Light Current	ΙL	Ee=1mW/cm ² λ p=875nm V_R =5V	17	25		μA			
Reverse Dark Current	I _D	Ee=0mW/cm ² V _R =10V		5	30	nA			
Reverse Breakdown Voltage	V_{BR}	Ee=0mW/cm ² I _R =100μA	32	170		V			

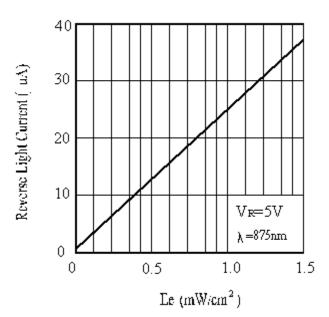


Typical Electro-Optical Characteristics Curves

Fig.1 Spectral Sensitivity

Fig. 2 Reverse Light Current vs. Ee







Precautions For Use

1. Over-current-proof

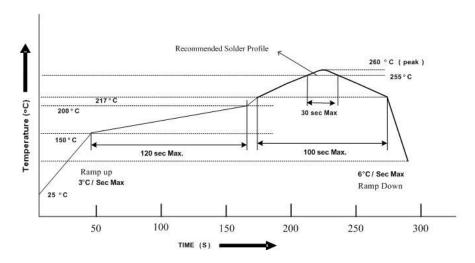
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

- 2.1 Do not open moisture proof bag before the products are ready to use.
- 2.2 Before opening the package, the Photodiode should be kept at 10°C ~30°C and 90%RH or less.
- 2.3 The Photodiode 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 Photodiode 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 $\pm 5^{\circ}$ 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 Photodiode during heating.
- 3.4 After soldering, do not warp the circuit board.

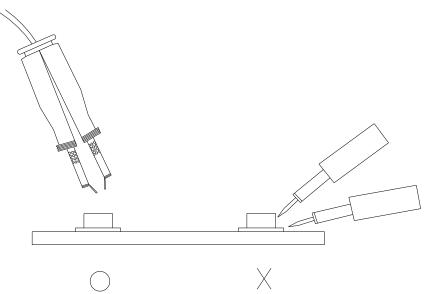


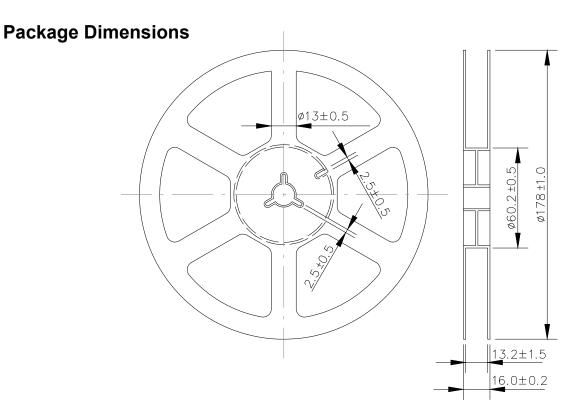
4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350° 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

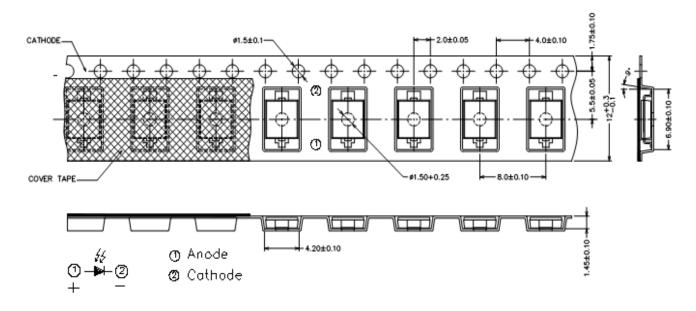
Repair should not be done after the Photodiode have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of the Photodiode will or will not be damaged by repairing.





Note: The tolerances unless mentioned are ±0.1 mm, unit: mm.

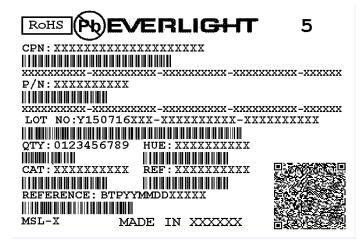
Carrier Tape Dimensions: (Quantity: 1000PCS/Reel)



Note: The tolerances unless mentioned are ±0.1 mm, unit: mm.



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

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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