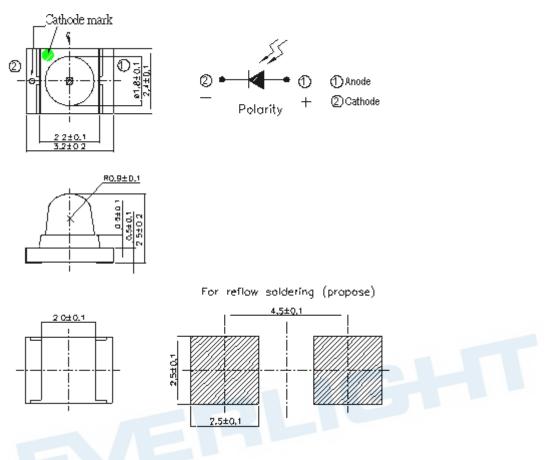


Package Dimensions



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

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	ymbol Rating	
Reverse Voltage	V _R	32	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	150	mW

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

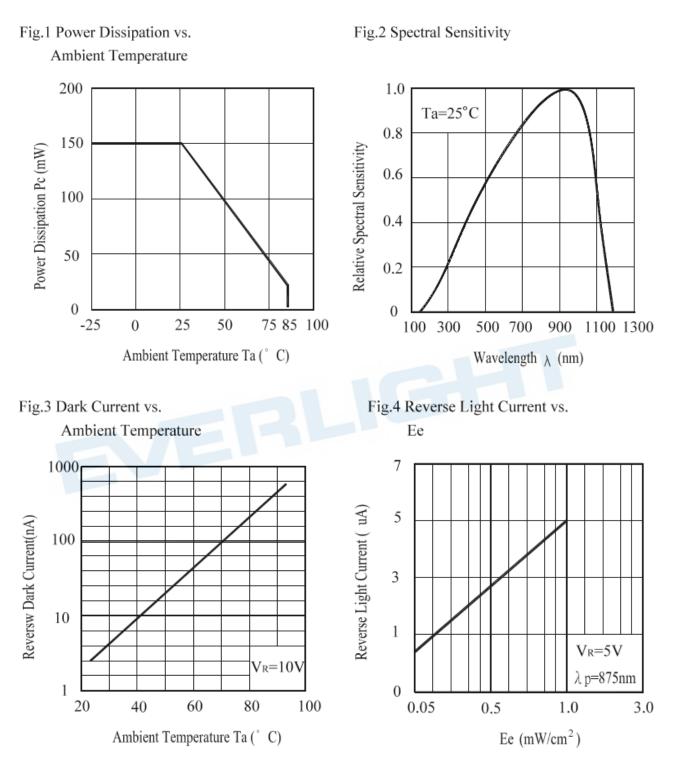
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Rang Of Spectral Bandwidth	λ _{0.5}		730		1100	nm
Wavelength Of Peak Sensitivity	λр			940		nm
Open-Circuit Voltage	V _{OC}	$\frac{\text{Ee}=5\text{mW}/\text{cm}^2}{\lambda_{\text{P}}=940\text{nm}}$		0.42		V
Short-Circuit Current	I _{SC}	$\frac{\text{Ee}=1\text{mW}/\text{cm}^2}{\lambda_{\text{P}}=875\text{nm}}$	2.0	5.0	12	μA
Reverse Light Current	IL	$Ee=1mW / cm^{2}$ $\lambda_{P}=875nm$ $V_{R}=5V$	2.0	5.0	12	μA
Dark Current	I _D	Ee=0mW /cm ² V _R =10V			10	nA
Reverse Breakdown Voltage	V _{BR}	Ee=0mW /cm ² I_R =100 μ A	32	170		V
Total Capacitance	Ct	Ee=0mW /cm2 F=1MHz VR=5V		5		Pf
Rise Time	tr	Vr=10V		6		nS
Fall Time	tf	RL=1000Ω		6		

Electro-Optical Characteristics (Ta=25°C)

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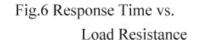
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Typical Electro-Optical Characteristics Curves

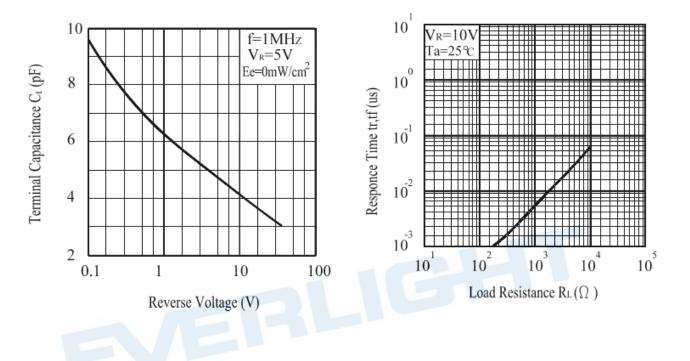


Typical Electro-Optical Characteristics Curves

Fig.5 Terminal Capacitance vs. Reverse Voltage



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Precautions For Use

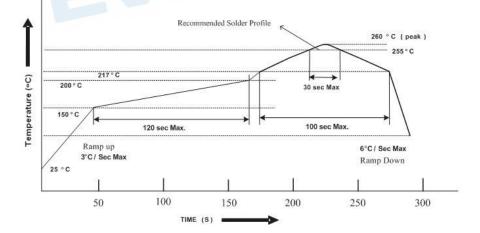
1. Over-current-proof

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 Photodiode should be kept at $10^\circ\!C\,\text{--}30^\circ\!C$ 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 $60^{\circ}C \pm 5^{\circ}C$ and < 5 % RH (reeled/tubed/loose units)

- 3. Soldering Condition
- 3.1 Lead solder temperature profile



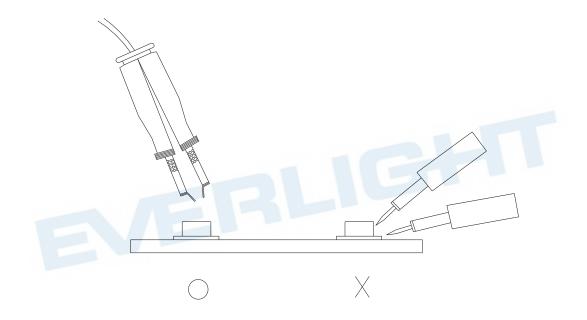
- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the Photodiode during heating.
- 3.4 After soldering, do not warp the circuit board.

4.Soldering Iron

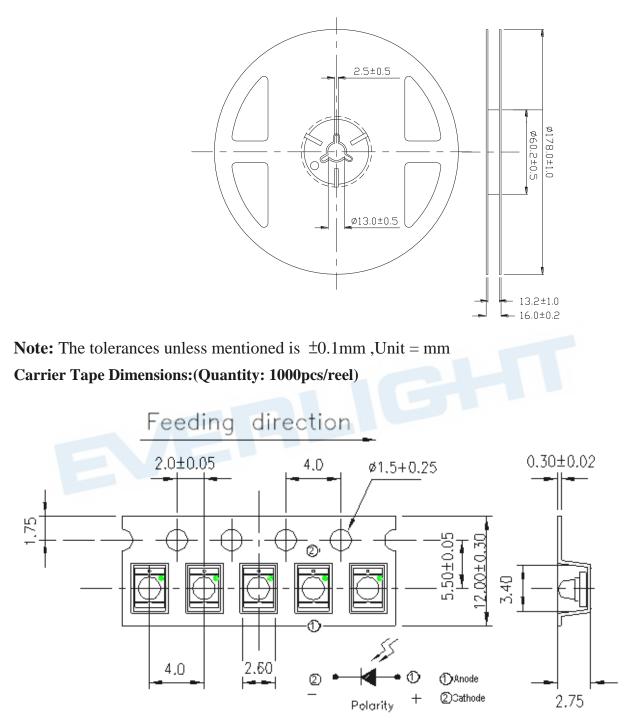
Each terminal is to go to the tip of soldering iron temperature less than 350° C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of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

5.Repairing

Repair should not be done after the 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.



Package Specification



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

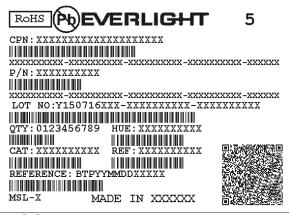
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Data Sheet

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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

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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EVERLIGHT ELECTRONICS CO., LTD. Office: No. 6-8, Zhonghua Rd., Shulin Dist., New Taipei City 23860, Taiwan Tel: 886-2-2685-6688 Fax: 886-2685-2699 [,] 6897

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