

3mm Photodiode PD204-6C

Features

- Fast response time
- High photo sensitivity
- Small junction capacitance
- Pb free
- This product itself will remain within RoHS compliant version.
- Compliance with EU REACH

Description

PD204-6C is a high speed and high sensitive PIN photodiode in a standard 3Φ plastic package.
The device is Spectrally matched to visible and infrared emitting diode.

Applications

- Automatic door sensor
- Copier
- Game machine

Device Selection Guide

| Chip Materials | Lens Color |
|----------------|-------------|
| Silicon | Water clear |

Absolute Maximum Ratings (Ta=25°C)

| Parameter | Symbol | Rating | Unit |
|---|-----------|------------|------|
| Reverse Voltage | V_R | 32 | V |
| Operating Temperature | T_{opr} | -40 ~ +85 | °C |
| Storage Temperature | T_{stg} | -40 ~ +100 | °C |
| Soldering Temperature | T_{sol} | 260 | °C |
| Power Dissipation at (or below) 25°C Free Air Temperature | P_c | 150 | mW |

Notes: *1: Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

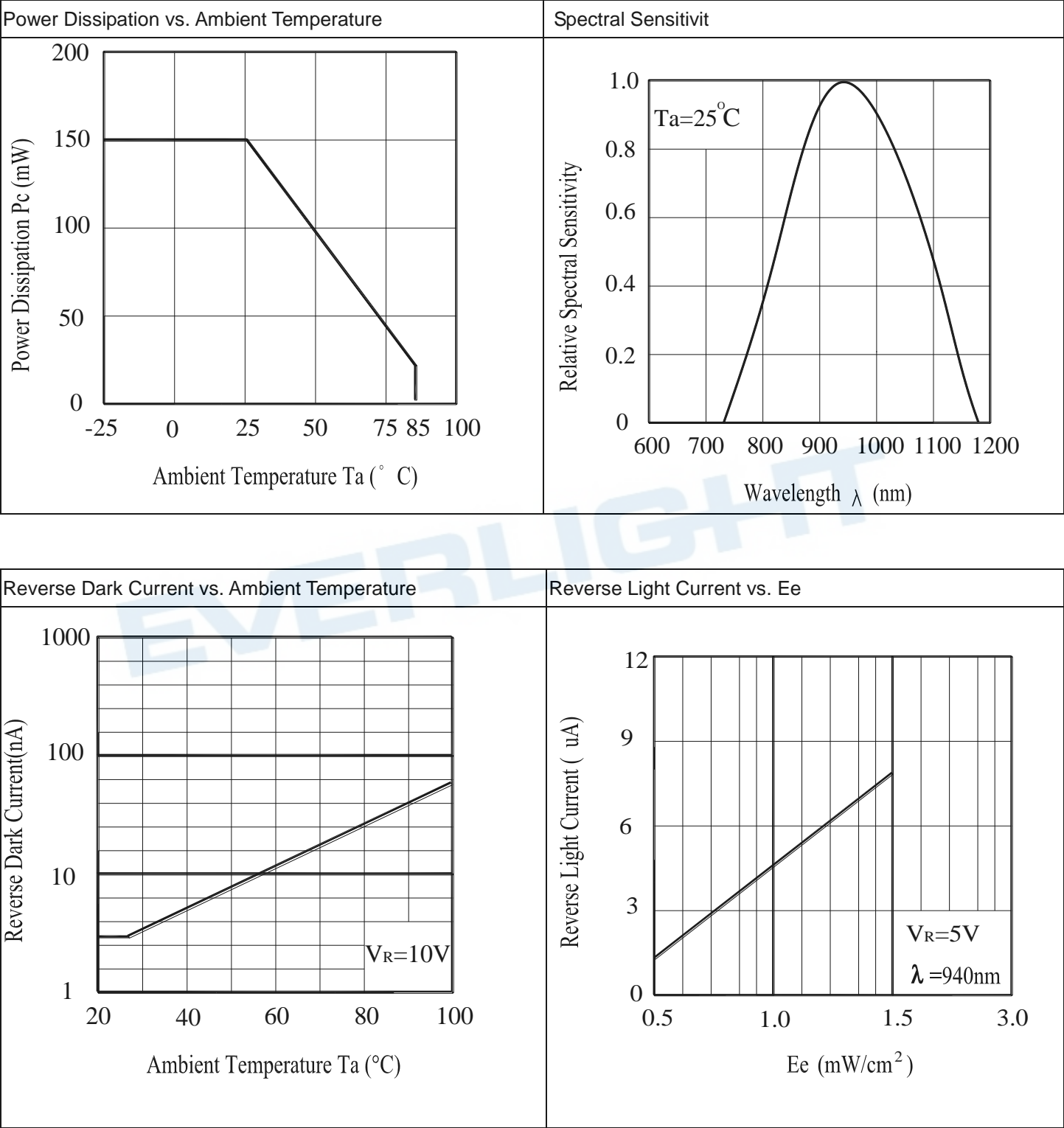
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|--------------------------------|-----------------|-------|-------|-------|---------|---|
| Range Of Spectral Bandwidth | $\lambda_{0.5}$ | 400 | ----- | 1100 | nm | ----- |
| Wavelength Of Peak Sensitivity | λ_P | ----- | 940 | ----- | nm | ----- |
| Open-Circuit Voltage | V_{OC} | ----- | 0.42 | ----- | V | Ee=1mW/cm ² λ_P =940nm |
| Short- Circuit Current | I_{SC} | ----- | 3.5 | ----- | μA | Ee=1mW/cm ² λ_P =940nm |
| Reverse Light Current | I_L | ----- | 3.5 | ---- | μA | Ee=1mW/cm ² λ_P =940nm V_R =5V |
| Reverse Dark Current | I_D | ---- | ---- | 10 | nA | Ee=0mW/cm ² V_R =10V |
| Reverse Breakdown Voltage | V_{BR} | 32 | 170 | ---- | V | Ee=0mW/cm ² I_R =100 μA |
| Total Capacitance | C_t | ----- | 5 | ----- | pF | Ee=0mW/cm ² V_R =5V f=1MHz |
| Rise Time/ Fall Time | t_r / t_f | ----- | 6/6 | ----- | ns | V_R =10V R_L =100 Ω |

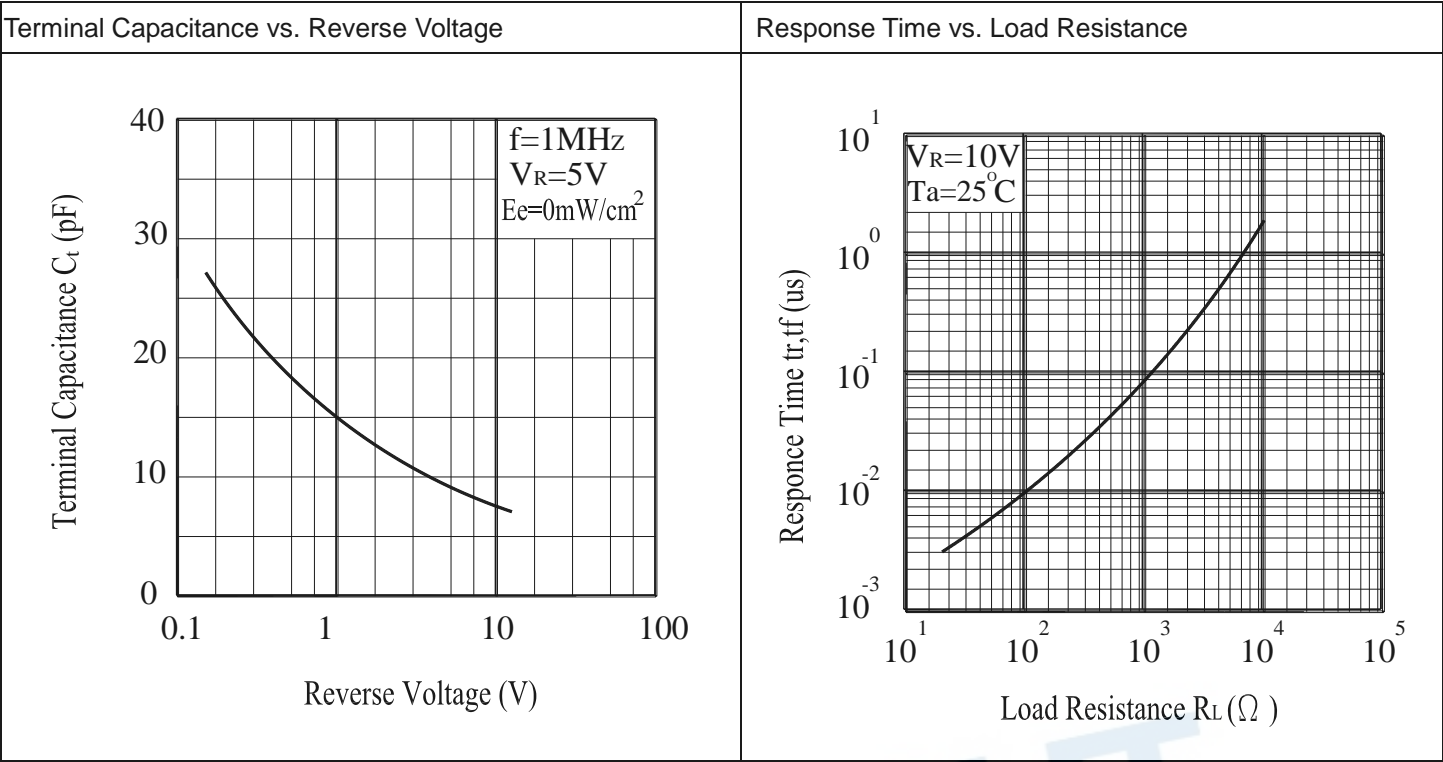
Note:

Tolerance of Luminous Intensity: $\pm 10\%$
Tolerance of Dominant Wavelength: $\pm 1nm$
Tolerance of Forward Voltage: $\pm 0.1V$

业务技术咨询：TEL/微信: 13422876592

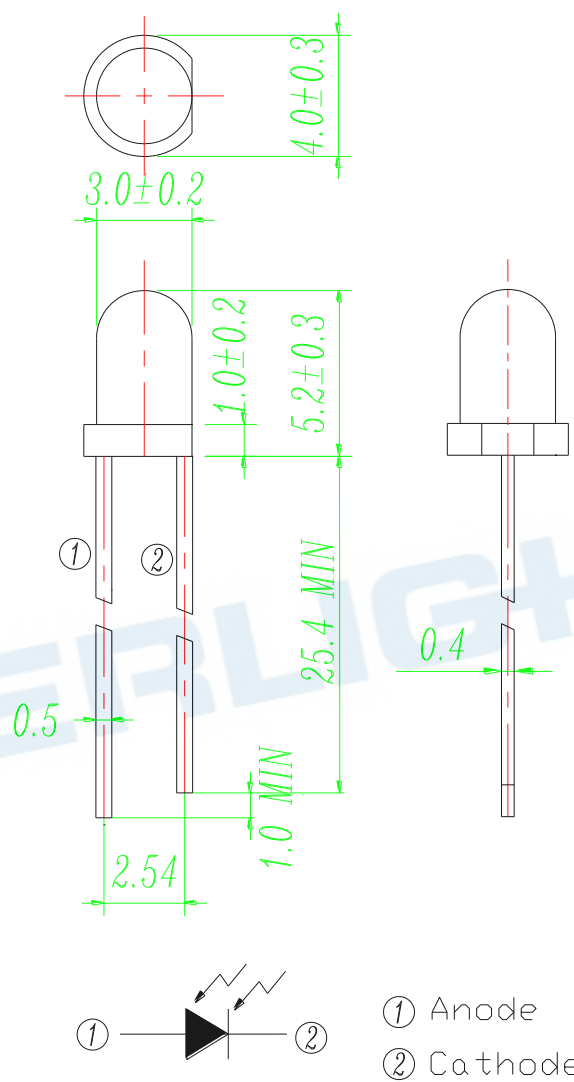
Typical Electro-Optical Characteristics Curves





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Package Dimension

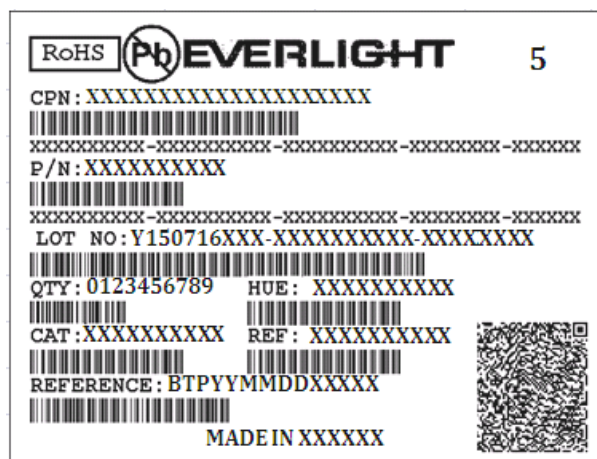


Note: Tolerances unless dimensions $\pm 0.25\text{mm}$

Packing Quantity Specification

1. 200~1000PCS/1Bag,4Bags/1Box
2. 10Boxes/1Carton

Label Form Specification



- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number
- Reference: Identify Label 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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