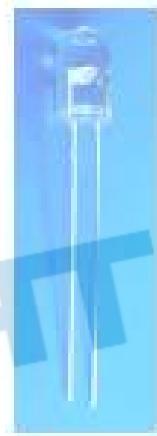


5mm photodiode PD333-3C/H0/L2

Features

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



Description

- PD333-3C/H0/L2 is a high speed and high sensitive PIN photodiode in a standard 5Φ plastic package. Due to its water clear epoxy the device is sensitive to infrared radiation

Applications

- High speed photo detector
- Security system
- Camera

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}	-25 ~ +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

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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}	-----	0.39	-----	V	$Ee=1\text{mW/cm}^2$ $\lambda p=940\text{nm}$
Short- Circuit Current	I_{SC}	-----	40	-----	μA	$Ee=1\text{mW/cm}^2$ $\lambda p=940\text{nm}$
Reverse Light Current	I_L	36	40	-----	μA	$Ee=1\text{mW/cm}^2$ $\lambda p=940\text{nm}$ $V_R=5\text{V}$
Reverse Dark Current	I_D	----	5	30	nA	$Ee=0\text{mW/cm}^2$ $V_R=10\text{V}$
Reverse Breakdown Voltage	V_{BR}	32	170	-----	V	$Ee=0\text{mW/cm}^2$ $I_R=100\mu\text{A}$
Total Capacitance	C_t	-----	18	-----	pF	$Ee=0\text{mW/cm}^2$ $V_R=5\text{V}$ $f=1\text{MHz}$
Rise Time/ Fall Time	t_r/ t_f	-----	45/45	-----	ns	$V_R=10\text{V}$ $R_L=100\Omega$
View Angle	$2\theta_{1/2}$	-----	80	-----	deg	$I_F=20\text{mA}$

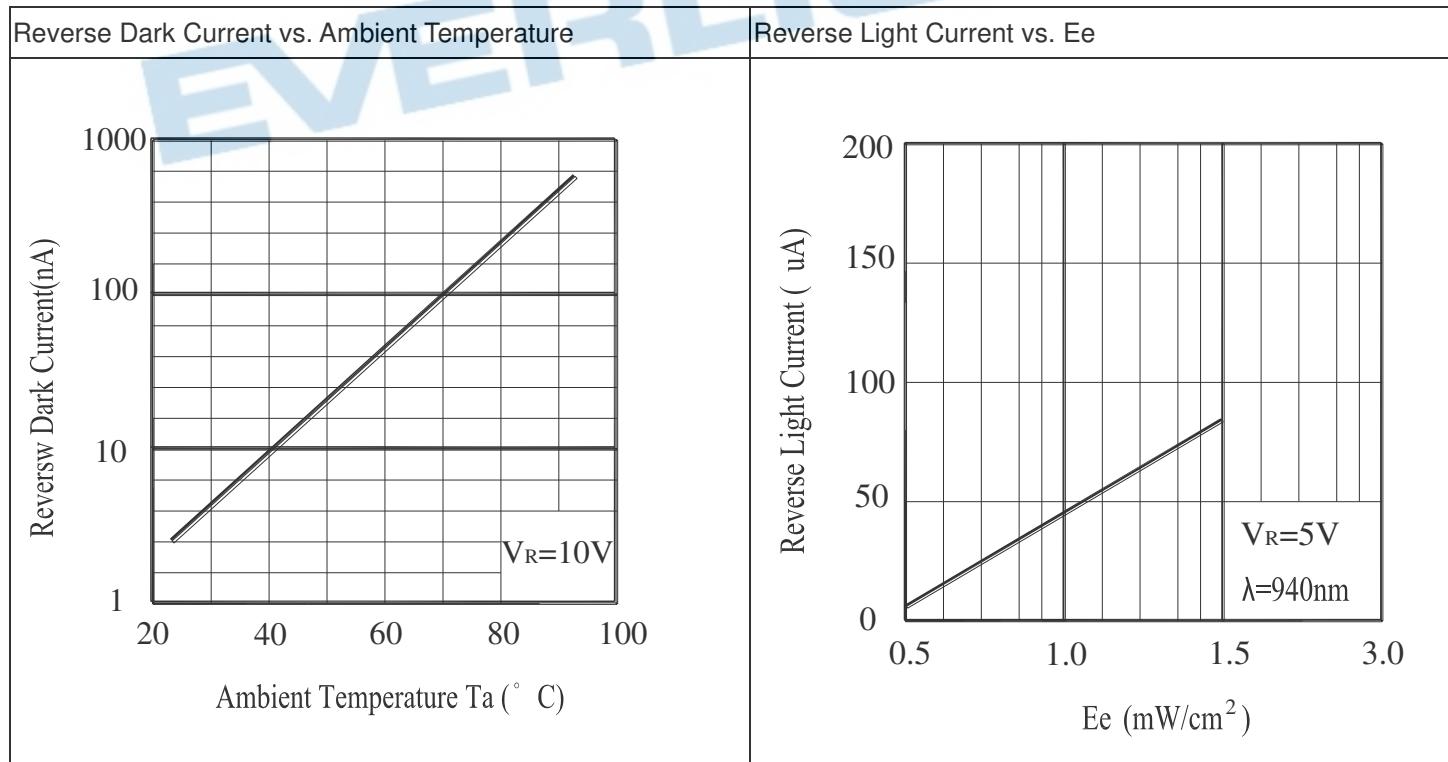
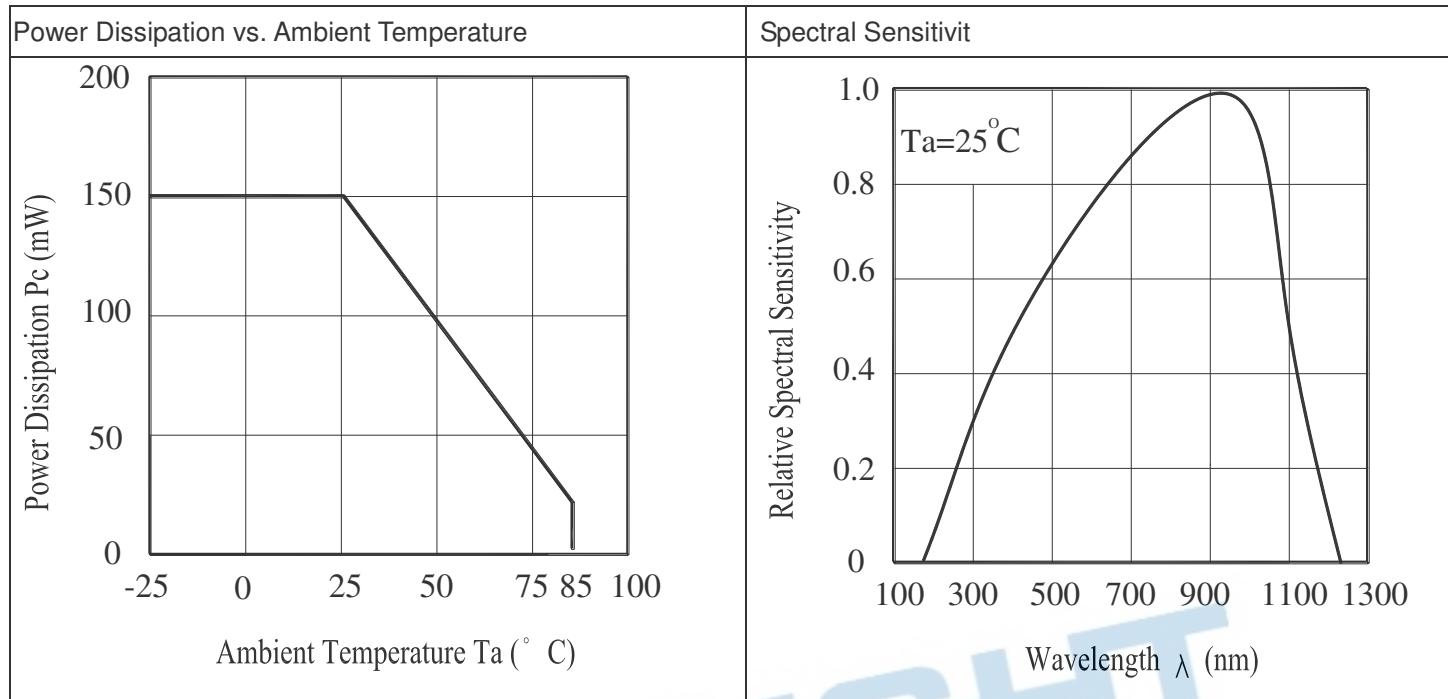
Note:

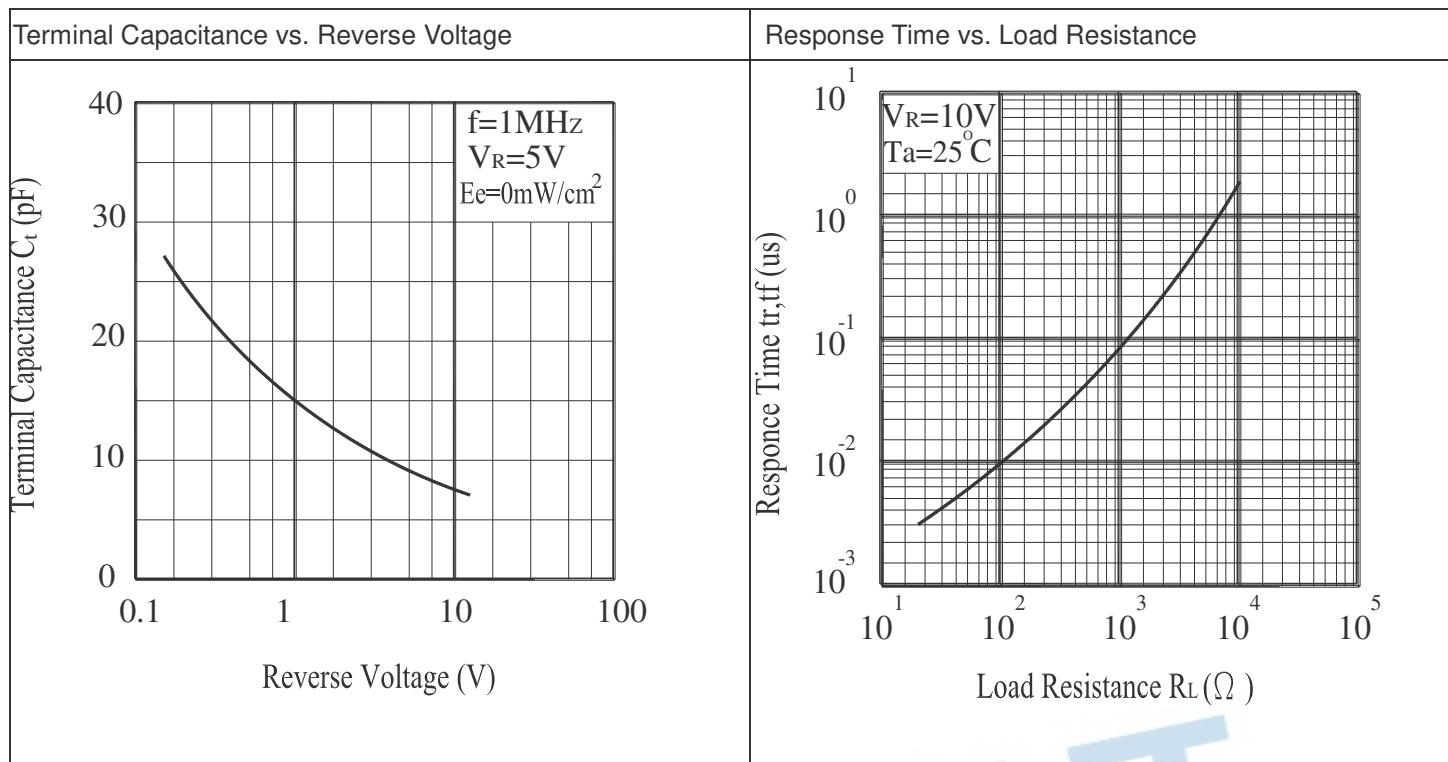
Tolerance of Luminous Intensity: $\pm 10\%$

Tolerance of Dominant Wavelength: $\pm 1\text{nm}$

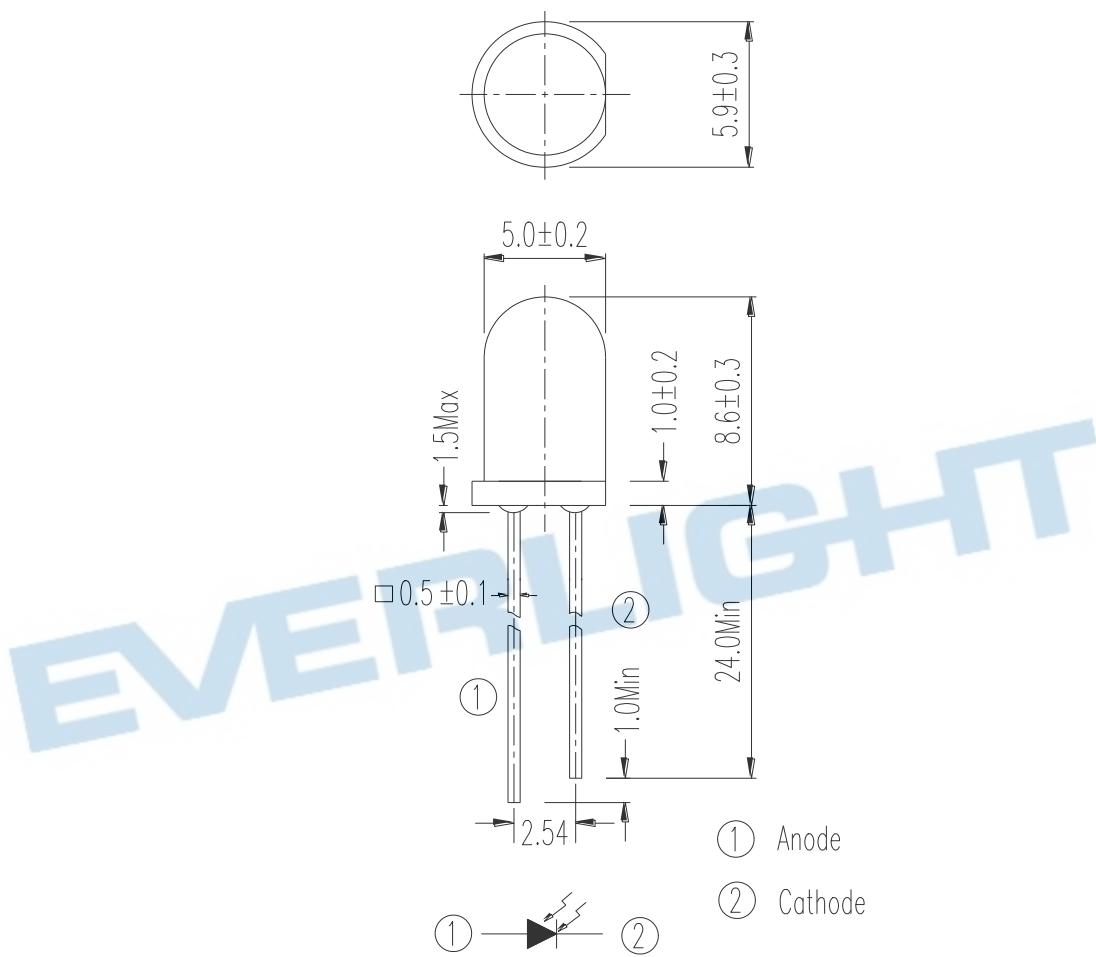
Tolerance of Forward Voltage: $\pm 0.1\text{V}$

Typical Electro-Optical Characteristics Curves





Package Dimension



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

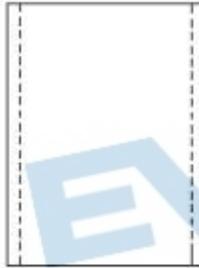
Label Form Specification



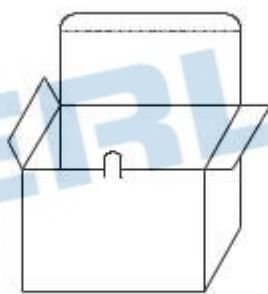
- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number
- X: Month
- Reference: Identify Label Number

Packing Quantity Specification

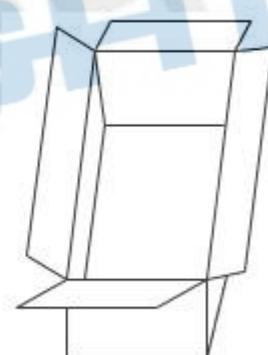
■ Anti-electrostatic bag



■ Inner Carton



■ Outside Carton



1.200~500PCS/1Bag , 5Bags/1 Inner Carton

2.10 Inner Cartons/1 Outside Carton

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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