EVERLIGHT

DATASHEET

5mm photodiode PD333-3B/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

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

Applications

- High speed photo detector
- Security system
- Camera

Device Selection Guide

Chip Materials	Lens Color
Silicon	Black

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	$^{\circ}$
Soldering Temperature	T _{sol}	260	$^{\circ}$
Power Dissipation at (or below)	P _c	150	mW
25° C Free Air Temperature	Ŭ		

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Range Of Spectral Bandwidth	λ _{0.5}	840		1100	nm	
Wavelength Of Peak Sensitivity	λ_{P}		940		nm	
Open-Circuit Voltage	V _{oc}		0.39		V	Ee=1mW/cm ² λp=940nm
Short- Circuit Current	I _{SC}		35		μA	Ee=1mW/cm ² λp=940nm
Reverse Light Current	۱	25	35		μΑ	Ee=1mW/cm ² λp =940nm V_R =5V
Reverse Dark Current	ID		5	30	nA	Ee=0mW/cm ² V _R =10V
Reverse Breakdown Voltage	V _{BR}	32	170		V	Ee=0mW/cm ² I _R =100µA
Total Capacitance	Ct		18		pF	$\begin{array}{c} \text{Ee=0mW/cm}^2\\ \text{V}_{\text{R}}\text{=}5\text{V}\\ \text{f=1MHz} \end{array}$
Rise Time/ Fall Time	t _{r/} / t _f		45		ns	V _R =10V R _L =100Ω
View Angle	201/2		80		deg	I _F =20mA

Note:

Tolerance of Dominant Wavelength: ±1nm

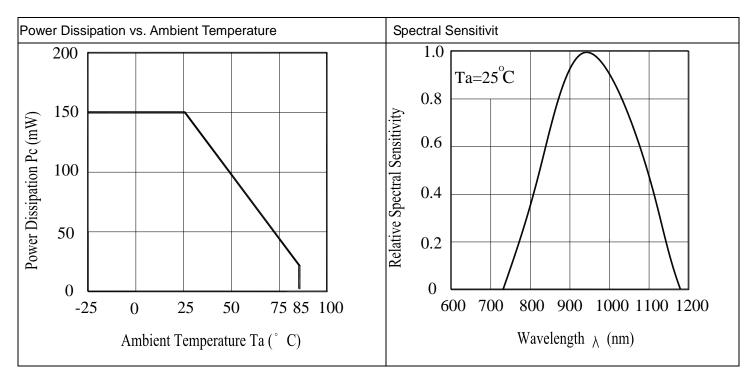
Tolerance of Forward Voltage: ±0.1V

I_L Rank

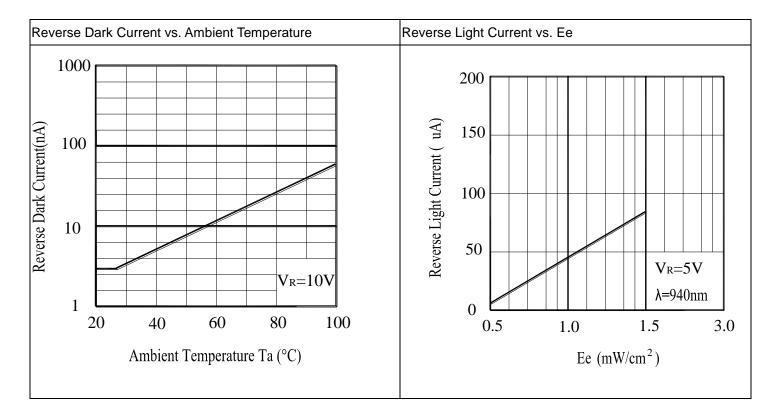
Condition : Ee=1mW/cm², λ p=940nm, V_R=5V Unit : uA

Bin Number	BIN1	BIN2	BIN3	BIN4	BIN5
Min	25	35	45	55	65
Max	35	45	55	65	75

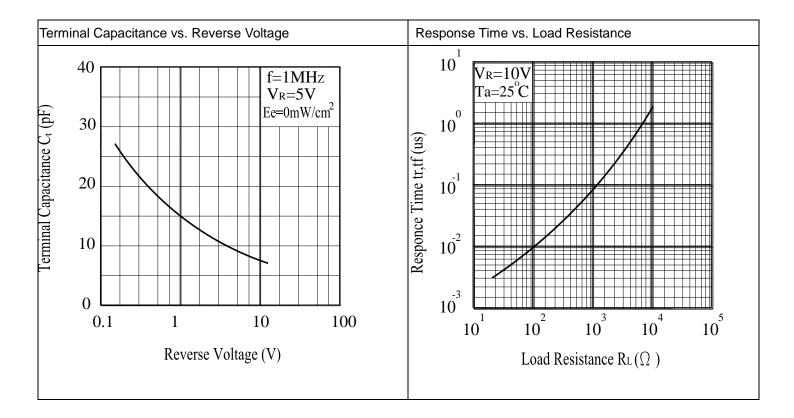
Tolerances: 20%



Typical Electro-Optical Characteristics Curves



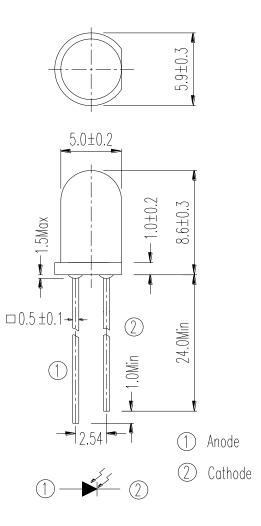
EVERLIGHT



DATASHEET 5mm photodiode PD333-3B/H0/L2



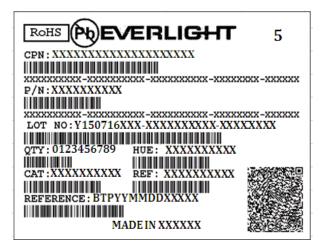
Package Dimension



Note: Tolerances unless dimensions ±0.25mm

Packing Quantity Specification 1.200~500PCS/1Bag , 5Bags/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
- X: Month
- Reference: Identify Label Number

DISCLAIMER

- 1. EVERLIGHT reserves the right(s) on the adjustment of product material mix for the specification.
- 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.
- 5. These specification sheets include materials protected under copyright of EVERLIGHT. Reproduction in any form is prohibited without obtaining EVERLIGHT's prior consent.
- 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Photodiodes category:

Click to view products by Everlight manufacturer:

Other Similar products are found below :

LTR-526AD OED-SP-7L LTR-536AB LTR-743DBM1-TA 67-21SYGC-S349-TR8 SFH 2200 A01 HFD3081-108-XBA BPW 34 S E9601 SFH 2713 SFH 2703 LTR-546AD BPV23FL BPW 34 FAS BPW 34 FS IG17X1000S4I IG22X250S4I VTD205H VTD205KH VTP1220FBH VTP1232FH VTP4085H SFH 2400 OP913WSL OPF794 PD70-01C/TR7 LTR-536AD VTP8651H VTD206KH VTB1013H BPV23NF OP905 LTR-516AD BPW 34 FS-Z VTD34FH SFH 2500 FA SFH 213 FA PD15-22C/TR8 VEMD5510C SFH 2200 VEMD5510CF APS5130PD7C-P22 SAH230M SAH230M2 SAH500M2 BP 104 FS BPV22F-AS12 BPW 21 BPW 34 SR-Z BPX 65 HSDL-5400#011