

3mm Photodiode EAPDLP03RDAA0



Features

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

Description

EAPDLP03RDAA0 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	Black

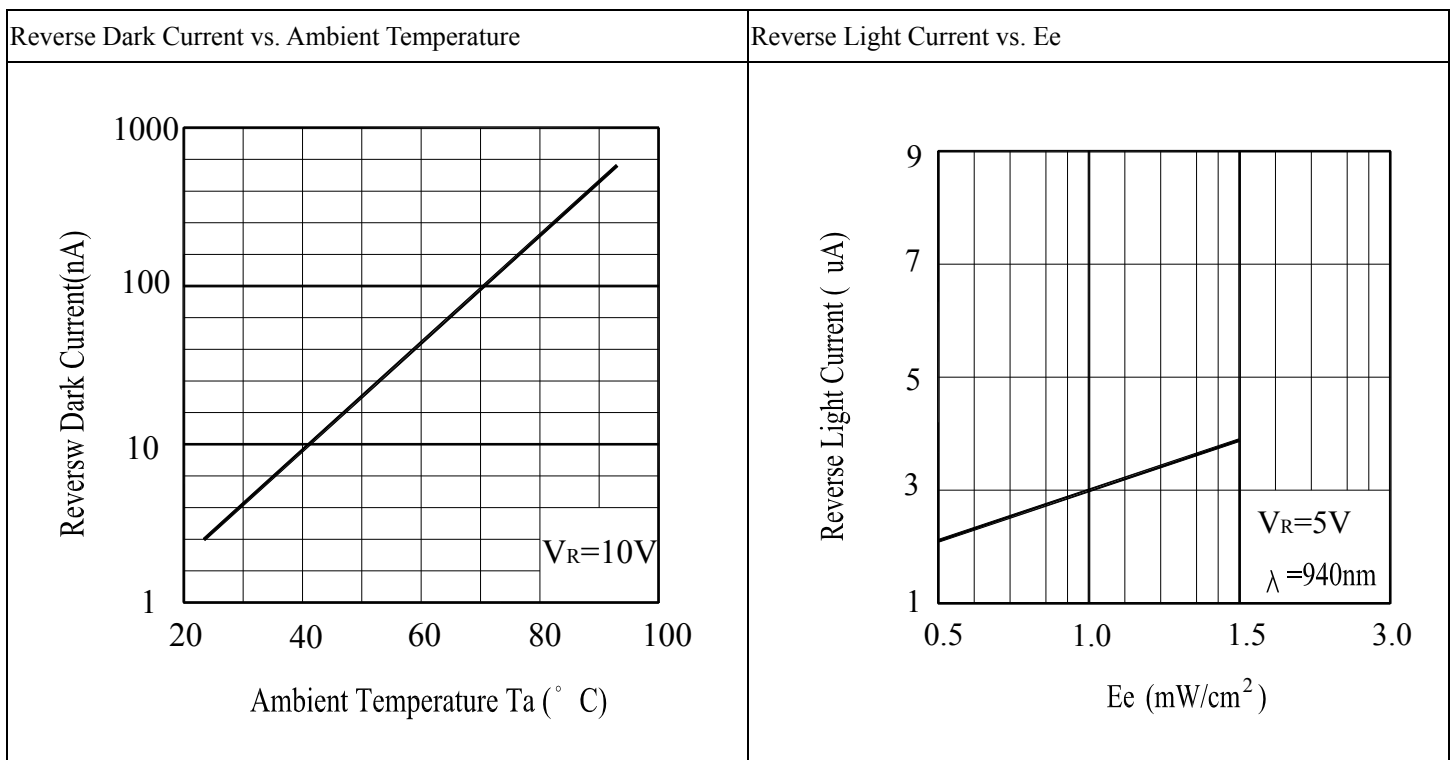
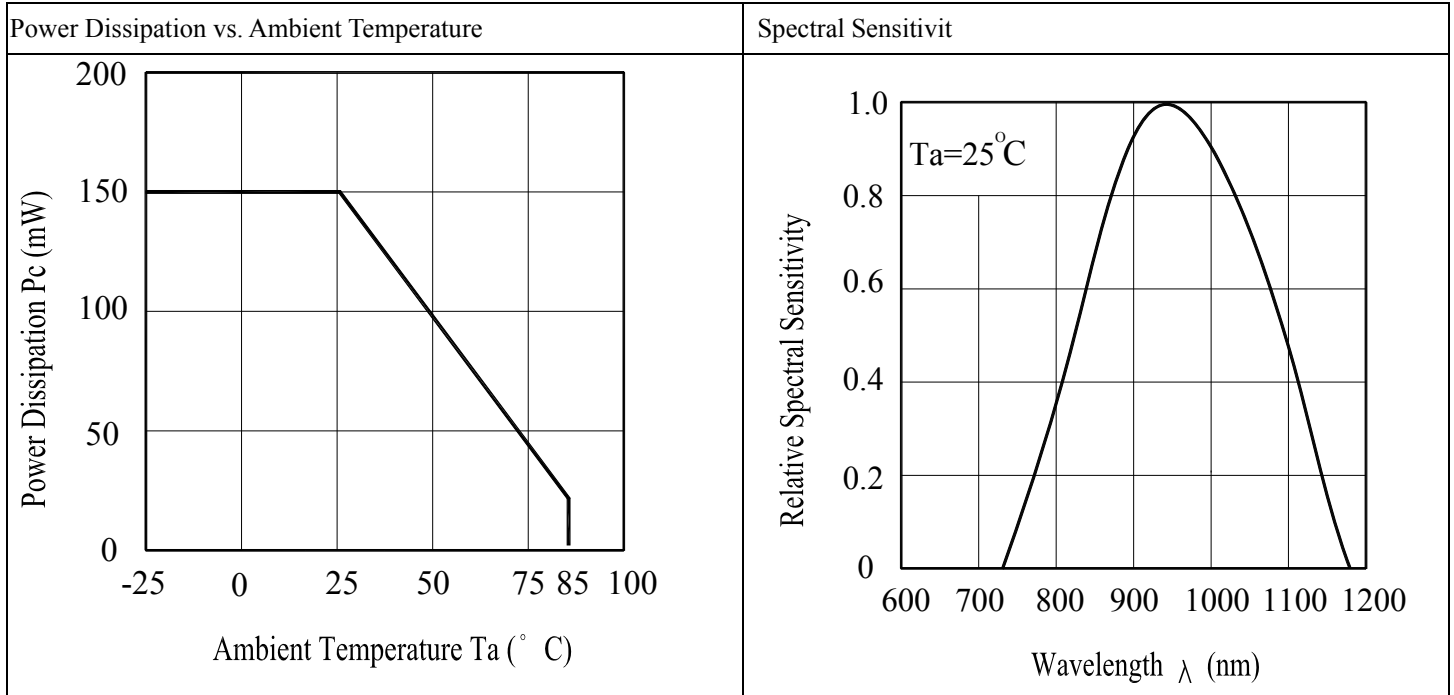
Absolute Maximum Ratings (Ta=25°C)

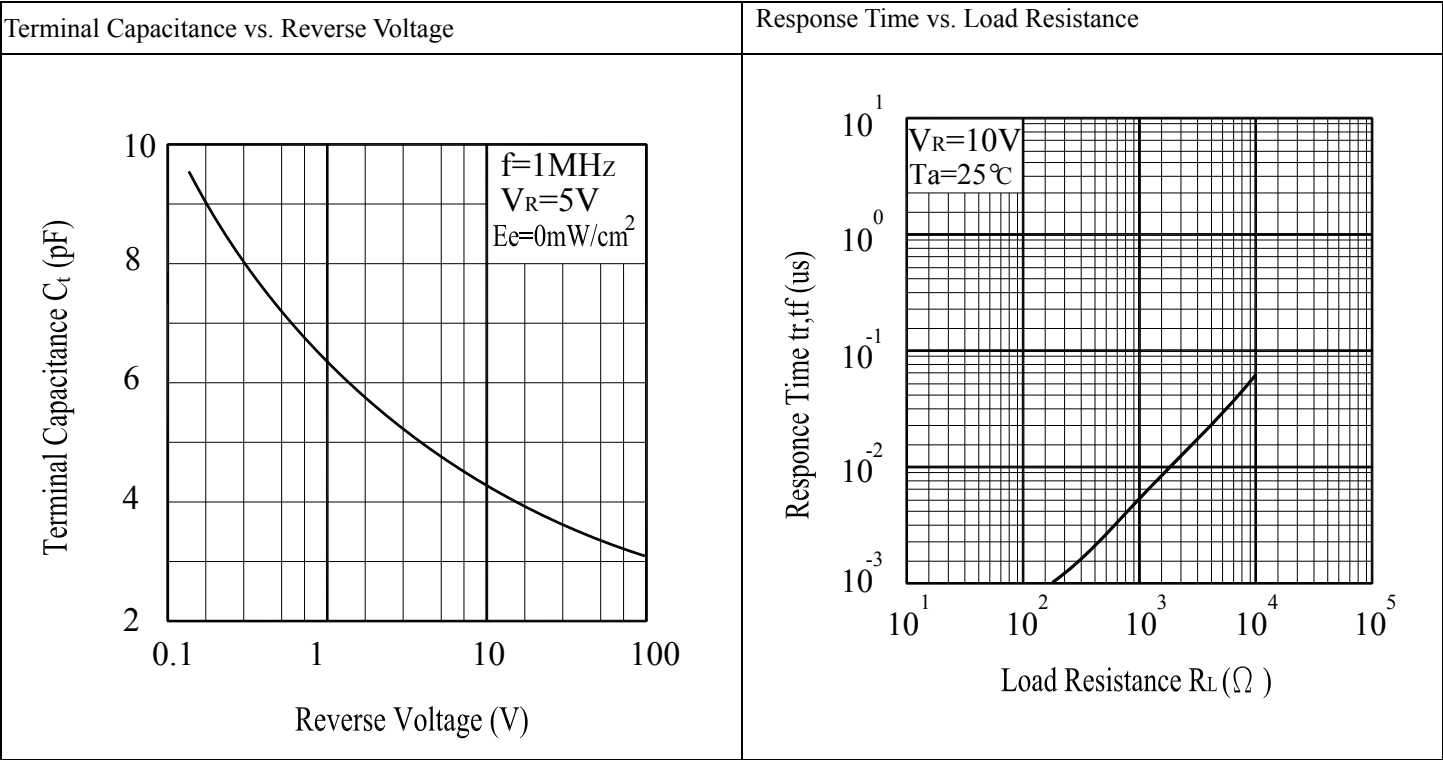
Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	32	V
Operating Temperature	T_{opr}	-25 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
Soldering Temperature	T_{sol}	260	°C
Power Dissipation at (or below) 25°C Free Air Temperature	P_c	150	mW

Electro-Optical Characteristics (Ta=25°C)

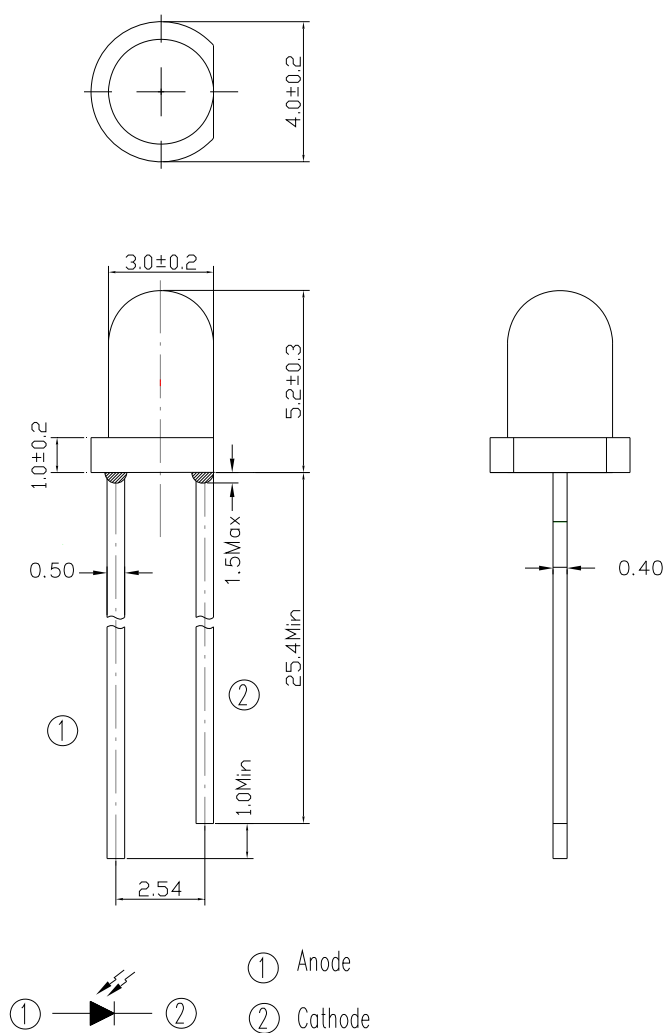
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Range Of Spectral Bandwidth	$\lambda_{0.5}$	840	---	1100	nm	-----
Wavelength Of Peak Sensitivity	λ_p	---	940	---	nm	-----
Open-Circuit Voltage	V_{OC}	---	0.42	---	V	Ee=5mW/cm ² λ_p =940nm
Short- Circuit Current	I_{SC}	---	3.0	---	μA	Ee=1mW/cm ² λ_p =940nm
Reverse Light Current	I_L	1.0	3.0	---	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	---	μA	Ee=0mW/cm ² I_R =100μA
Total Capacitance	C_t	---	5	---	pF	Ee=0mW/cm ² V_R =5V f=1MHz
Rise Time/ Fall Time	t_r / t_f	-----	6	-----	ns	V_R =10V R_L =100Ω

Typical Electro-Optical Characteristics Curves





Package Dimension



Note: Tolerances unless dimensions ± 0.25 mm

Label Form Specification

Pb **EVERLIGHT** **RoHS**

CPN :
P/N : XXXXXXXXXXXXX
XXXXXXXXXXXXXX

QTY : XXX
XXXXXXXXXXXXXX

LOT NO : XXXXXXXXXXXX
XXXXXXXXXXXXXX

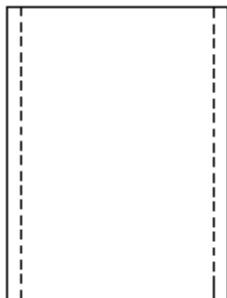
Reference : XXXXXXXXX
XXXXXXXXXXXXXX

CAT : XXX
HUE : XXX
REF : XXX

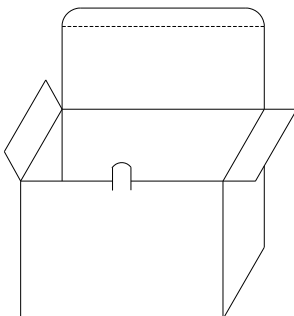
- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number
- X: Month
- Reference: Identify Label Number

Packing Specification

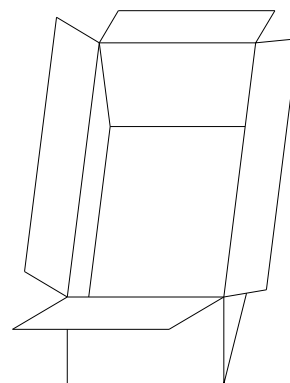
■ Anti-electrostatic bag



■ Inner Carton



■ Outside Carton



■ Packing Quantity

1. 1000 PCS/1 Bag, 4 Bags/1 Inner Carton
2. 10 Inner Cartons/1 Outside Carton

Notes

1. Above specification may be changed without notice. Everlight Americas will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Everlight Americas assumes no responsibility for any damage resulting from 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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