

4.8mm Semi-Lens Silicon PIN Photodiode EAPDLP04SCAA1



Features

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

Description

- EAPDLP04SCAA1 is a high speed and sensitive PIN photodiode in a cylindrical side view plastic package. The epoxy package itself is an IR filter , spectrally matched to IR emitter.

Applications

- High speed photo detector
- Camera
- Optoelectronic switch
- VCRs , Video camera

Device Selection Guide

Chip Materials	Lens Color
GaAlAs	Black

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	32	mA
Power Dissipation	P _d	150	mW
Operating Temperature	T _{opr}	-25 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C
Soldering Temperature(*1)	T _{sol}	260	°C

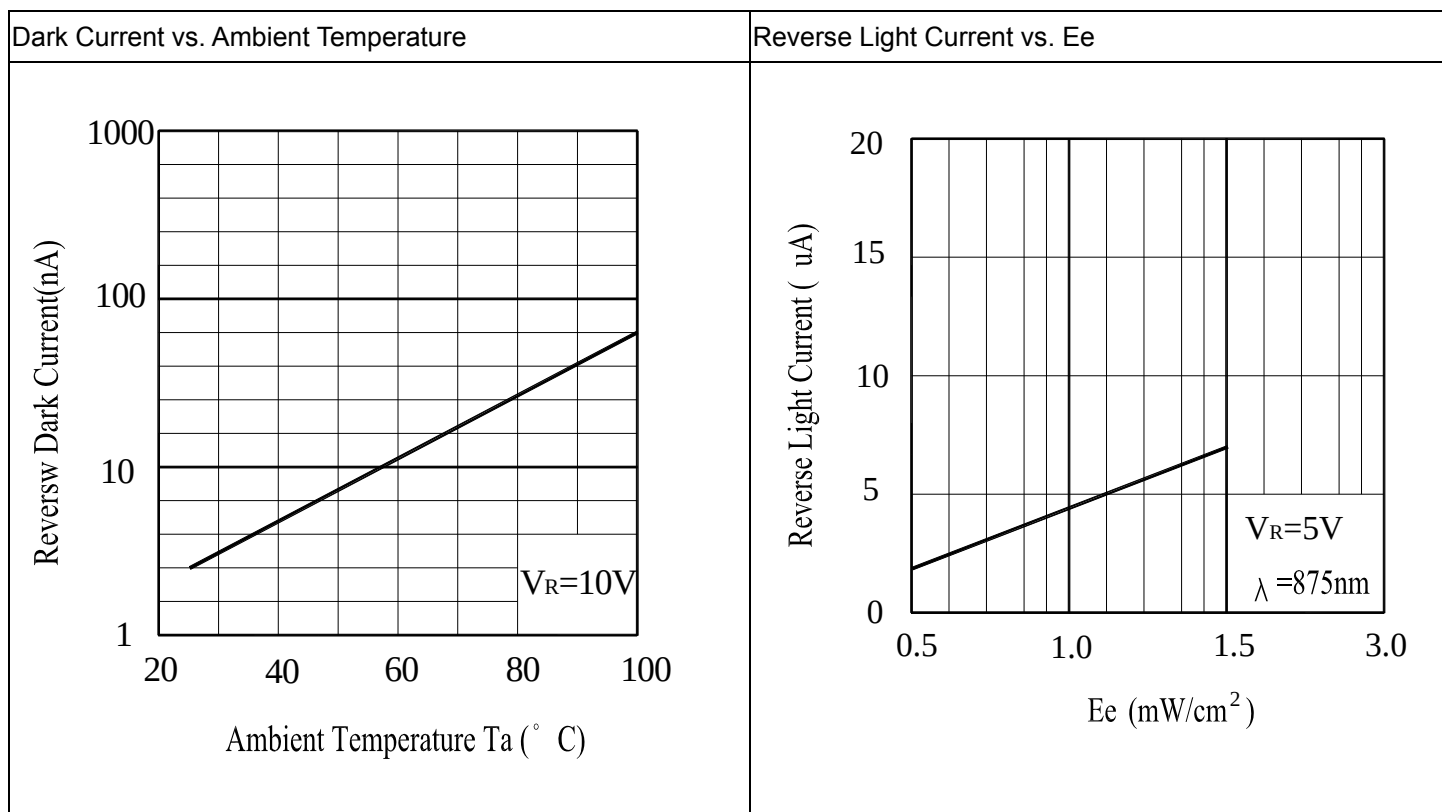
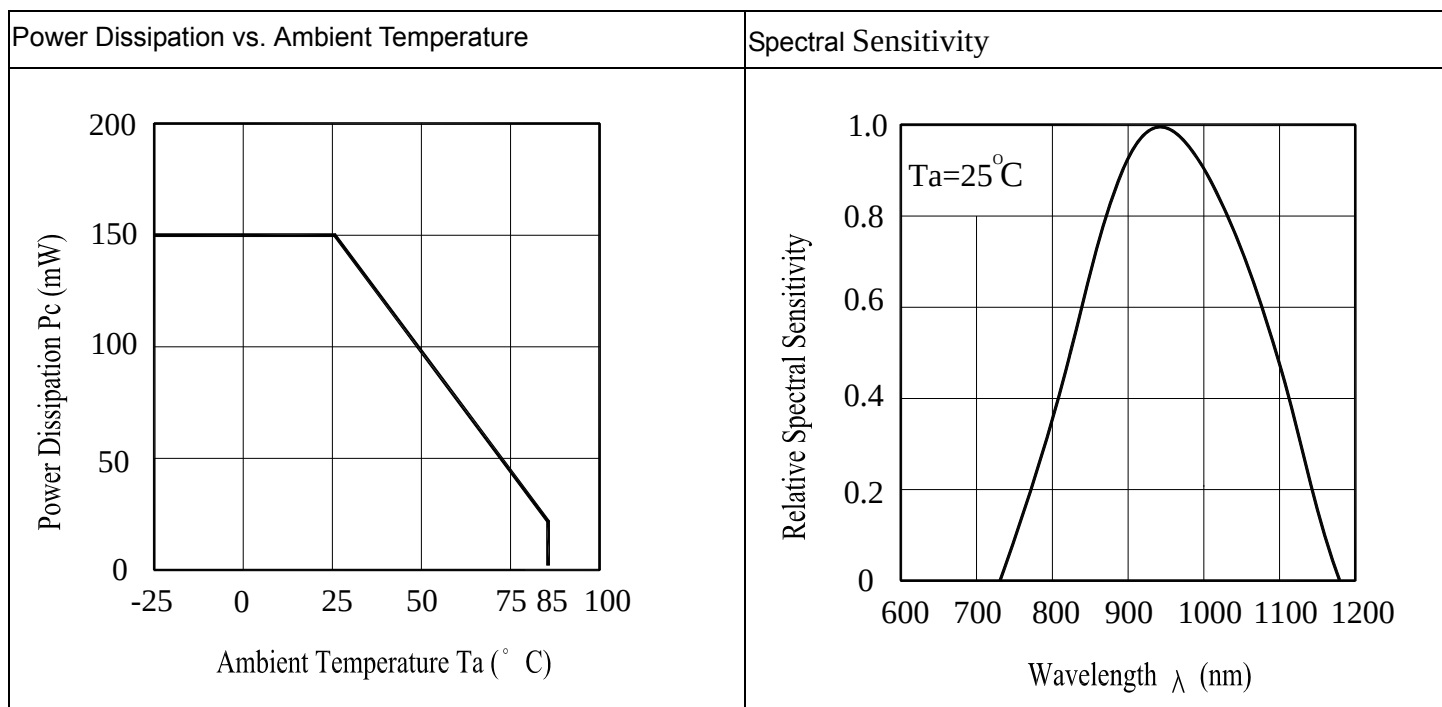
Notes: *1: Soldering time ≤ 5 seconds.

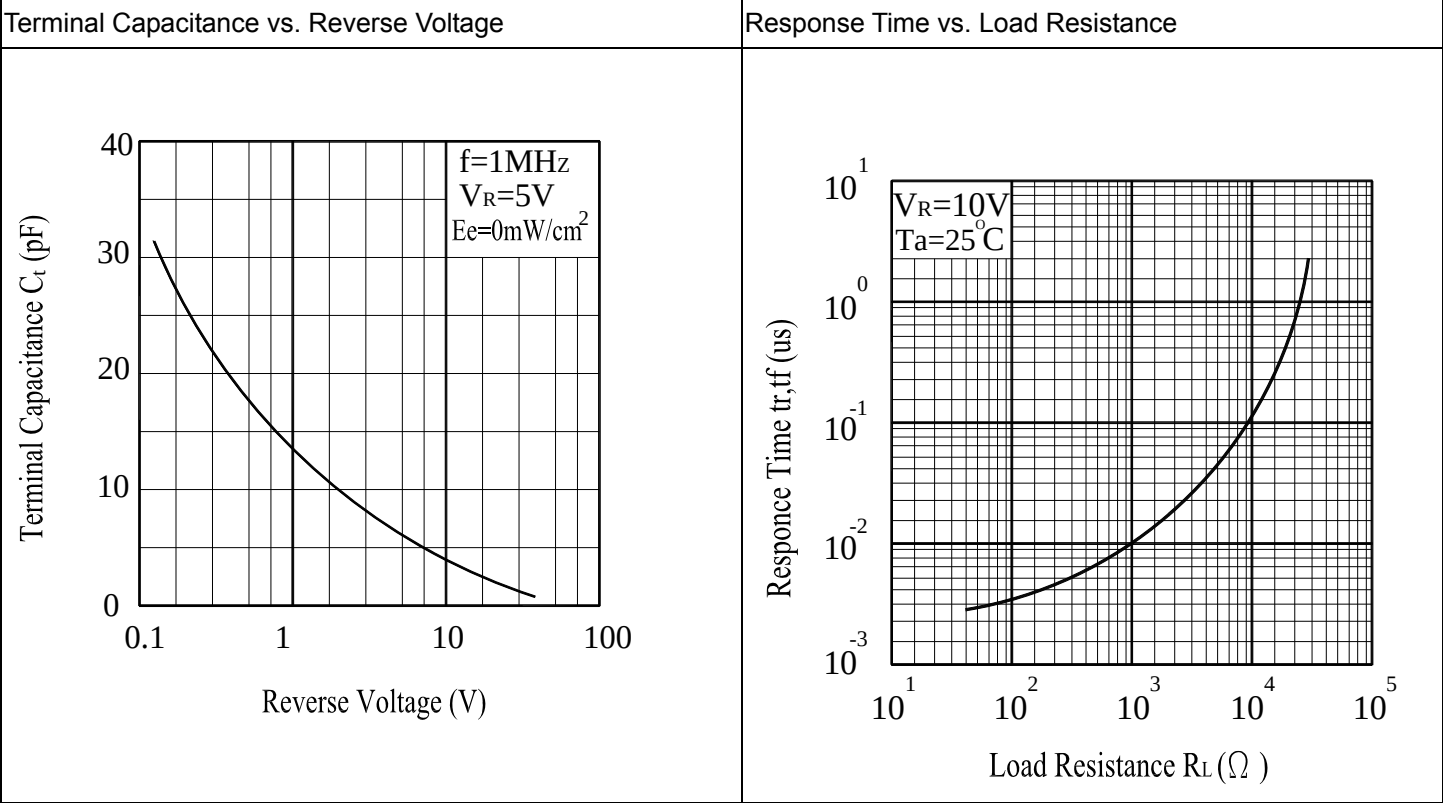
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Electro-Optical Characteristics (Ta=25°C)

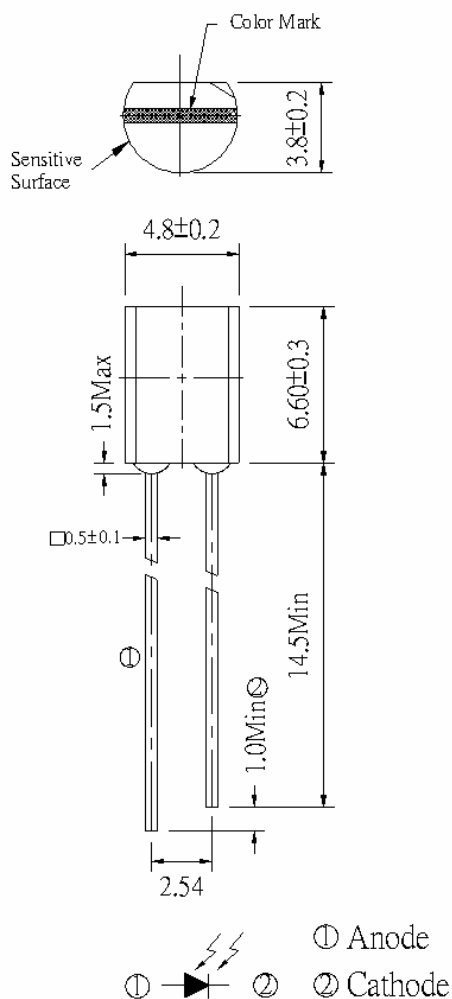
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Rang of Spectral Bandwidth	$\lambda_{0.5}$	840	-----	1100	nm	-----
Wavelength of Peak Sensitivity	λ_p	-----	940	-----	nm	-----
Open-Circuit Voltage	V_{OC}	-----	0.41	-----	V	Ee=5m W/cm2 $\lambda_p=940nm$
Short- Circuit Current	I_{SC}	-----	4.0	-----	uA	Ee=1m W/cm2 $\lambda_p=940nm$
Reverse Light Current	I_L	2.6	4.0	-----	uA	Ee=1m W/cm2 $\lambda_p=940nm$ $V_R=5V$
Dark Current	I_d	----	-----	10	nA	Ee=0m W/cm2 $V_R=10V$
Reverse Breakdown	BVR	32	170	-----	V	Ee=0m W/cm2 $I_R=100\mu A$
Total Capacitance	C_t	----	6	----	pF	Ee=0m W/cm2 $V_R=5V$ $f=1MHZ$
Rise/Fall Time	t_r/t_f	----	10/10	----	ns	$V_R=10V$ $R_L=1K\Omega$

Typical Electro-Optical Characteristics Curves



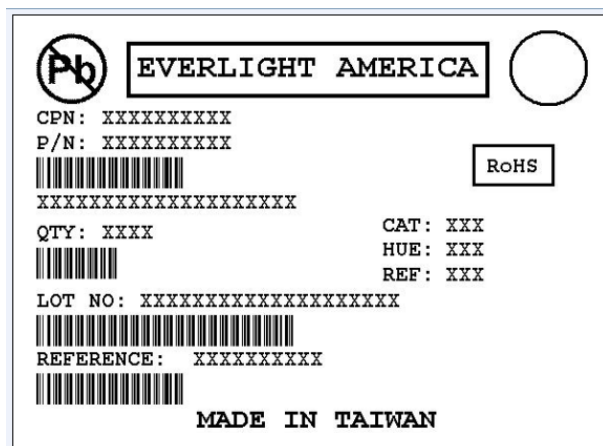


Package Dimension



Note: Tolerances unless dimensions ± 0.25 mm

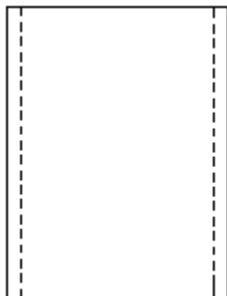
Label Explanation



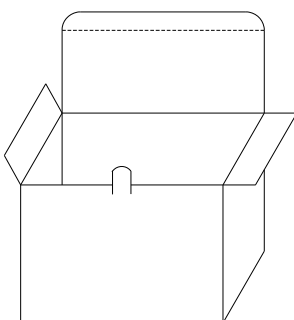
- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number
- Reference: Identify Label Number

Packing Specification

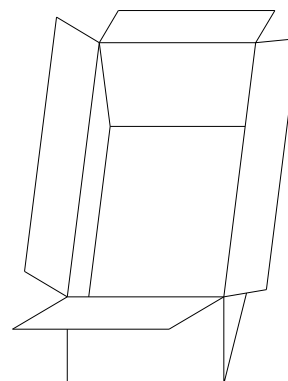
■ Anti-electrostatic bag



■ Inner Carton



■ Outside Carton



■ Packing Quantity

1. 500 PCS/1 Bag, 5 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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