

DATASHEET

EAPDLP04SCAA2

Features

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



Descriptions

EAPDLP04SCAA2is 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

LED Part No.	Chip	Lens Color	
LED Fart No.	Material		
EAPDLP04SCAA2	Silicon	Black	



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units	
Reverse Voltage	V_R	32	V	
Power Dissipation	Pd	150	mW	
Lead Soldering Temperature	Tsol	260	$^{\circ}\!\mathbb{C}$	
Operating Temperature	Topr	-40 ~ +85	$^{\circ}\!\mathbb{C}$	
Storage Temperature	Tstg	-40 ~ +100	$^{\circ}\!\mathbb{C}$	

Notes: *1:Soldering time \leq 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Units
Rang of Spectral Bandwidth	λ 0.5		840		1100	nm
Wavelength of Peak Sensitivity	λp			940		nm
Open-CircuitVoltage	V _{OC}	Ee=5m W/cm ² λ p=940nm		0.41		V
Short- Circuit Current	I_{SC}	Ee=1m W/cm ² λ p=940nm		18		
Reverse Light Current	I_L	Ee=1m W/cm ² λ p=940nm V_R =5V	10.2	18		μА
Dark Current	Id	Ee=0m W/cm ² V _R =10V		5	30	nA
Reverse Breakdown	BV_R	Ee=0m W/cm ² I _R =100µ A	32	170		V
Total Capacitance	Ct	$Ee=0m W/cm^2$ $V_R=5V$ $f=1MHZ$		18		pF
Rise/Fall Time	t_r/t_f	$V_R=10V$ $R_L=1K\Omega$		50/50		nS

Note:

Tolerance of Luminous Intensity: ±10% Tolerance of Dominant Wavelength: ±1nm

Tolerance of Forward Voltage: ±0.1V

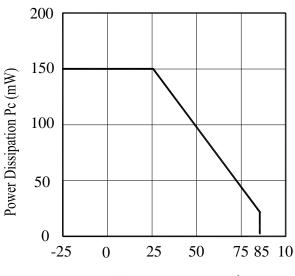


Typical Electro-Optical Characteristics Curves

Fig.1 Power Dissipation vs.

Fig.2 Spectral Sensitivity

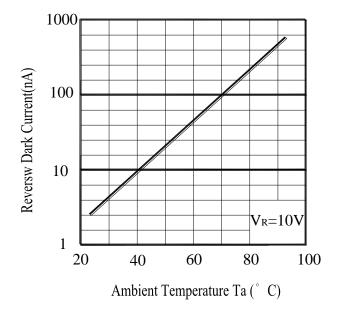




Ambient Temperature Ta (° C)

Fig.3 Dark Current vs.

Ambient Temperature



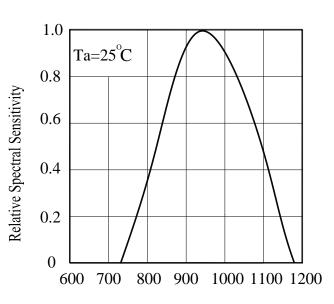
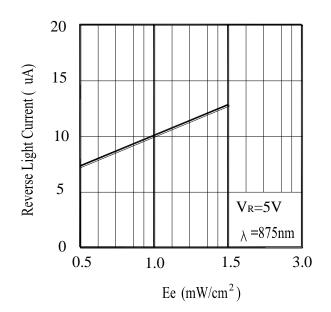


Fig. 4 Reverse Light Eurrent vs.

Ee





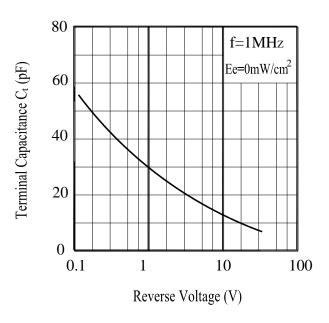
Typical Electro-Optical Characteristics Curves

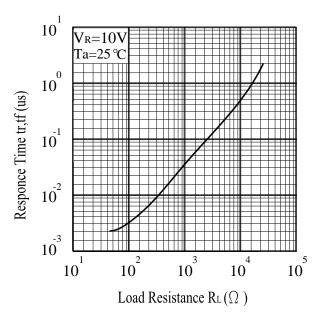
Fig.5 Terminal Capacitance vs.

Fig.6 Response Time vs.

Reverse Voltage

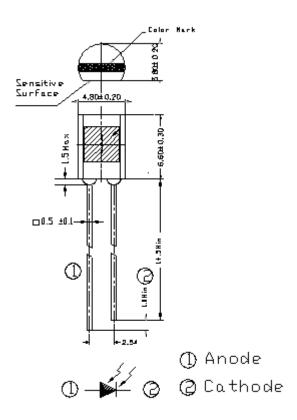
Load Resistance







Package Dimension



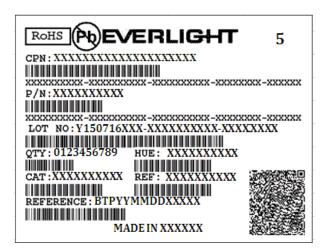
Note: Tolerances unless dimensions ±0.25mm



Packing Specification

- Packing Quantity
- 1. 200~500 PCS/1 Bag, 5Bags/1 Inner Carton
- 2. 10Inner Cartons/1 Outside Carton

Label Form Specification



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

DISCLAIMER

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