

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DATASHEET

5mm Phototransistor EAPLP05RDQA0



Features

- Fast response time
- · High photo sensitivity
- Pb free
- The product itself will remain within RoHS compliant version.

Description

 EAPLP05RDQA0 is a high speed and high sensitive NPN silicon NPN epitaxial planar phototransistor molded in a standard 5 mm package. Due to is black epoxy the device is sensitive to visible and near Infrared radiation.

Applications

- Infrared applied system
- Camera
- · Cockroach catcher



Device Selection Guide

Chip Materials	Lens Color
Silicon	Black

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Collector-Voltage	V _{ECO}	5	V
Collector Current	Ic	20	mA
Operating Temperature	T _{opr}	-25~+85	°C
Storage Temperature	T _{stg}	-40~ +100	°C
Lead Soldering Temperature	Tsol	260 ℃	°C
Power Dissipation at (or below)	P _c	75	mW
25°C Free Air Temperature			

Notes: *1:Soldering time ≤ 5 seconds.

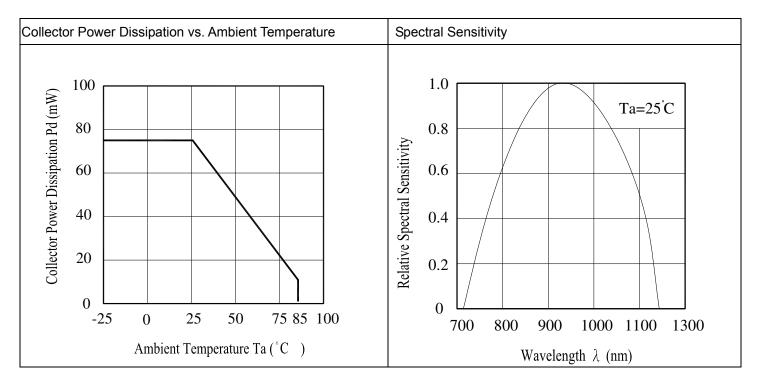


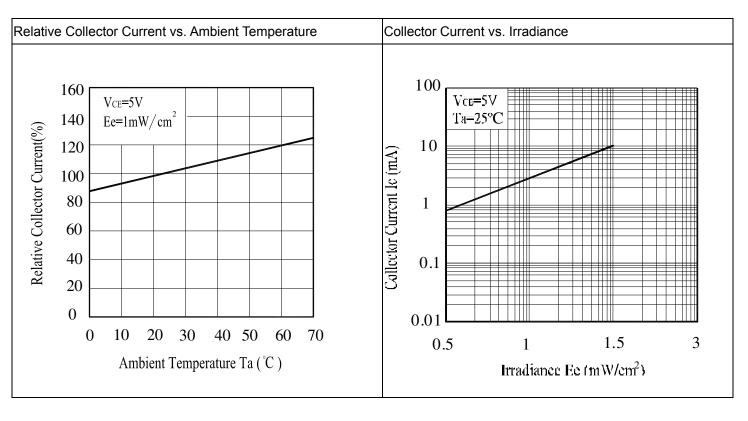
Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Collector – Emitter Breakdown Voltage	BV _{CEO}	30			V	I _C =100μA Ee=0mW/cm ²
Emitter-Collector Breakdown Voltage	BV _{ECO}	5			V	I _E =100μA Ee=0mW/cm ²
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.4	V	I _C =2mA Ee=1mW/cm ²
Rise Time	t _r		15		μS	V_{CE} =5 V I_{C} =1 mA RL =1000 Ω
Fall Time	t _f		15			
Collector Dark Current	I _{CEO}			100	nA	Ee=0mW/cm ² V _{CE} =20V
On State Collector Current	I _{C(on)}	1.77	4.0		mA	Ee=1mW/cm ² V_{CE} =5V λp =940nm
Rang Of Spectral Bandwidth	λ _{0.5}	760		1100	nm	
Wavelength of Peak Sensitivity	λ_{P}		940		nm	

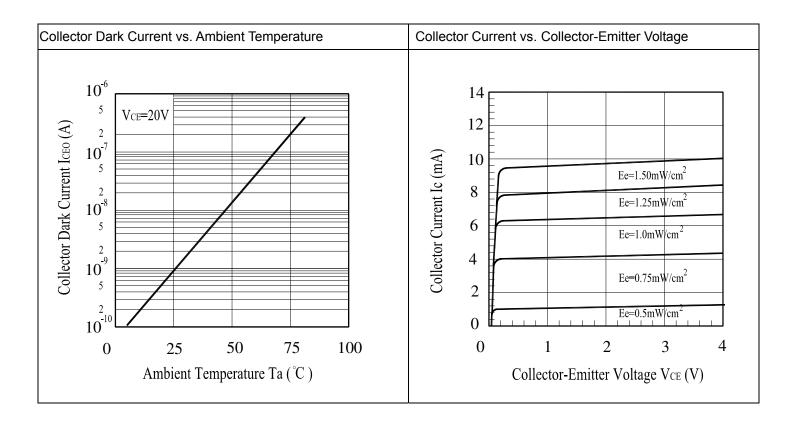


Typical Electro-Optical Characteristics Curves



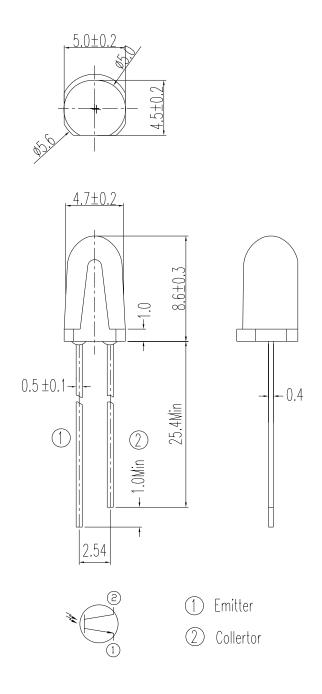








Package Dimension

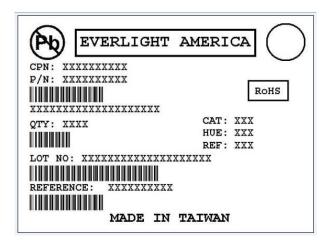


Note: 1.All dimensions are in millimeters

2.Tolerances unless dimensions ±0.25mm



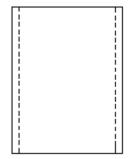
Label Form Specification



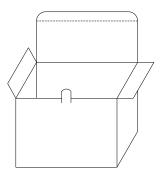
- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength RankREF: Forward Voltage Rank
- · LOT No: Lot Number
- Reference: Identify Label Number

Packing Specification

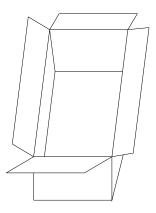
■ Anti-electrostatic bag



■ Inner Carton



Outside Carton



- Packing Quantity
- 1. 500 PCS/1 Bag, 6 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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