

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

Side Face Silicon Phototransistor EAPLP04RRAA2

Features

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

Description

- EAPLP04RRAA2 is a high speed and high sensitive dual phototransistor molded in a black plastic package with plat side view
- The device is spectrally matched with IR emitters.

Applications

- Mouse
- Optoelectronic Switch
- Photo Interrupter



Device Selection Guide

Chip Materials	Lens Color
Si	Black

Absolute Maximum Ratings (Ta=25 $^{\circ}$ C)

Parameter	Symbol	Rating	Unit
Collector-Emitter Voltage	$V_{\sf CEO}$	30	V
Emitter-Collector-Voltage	V_{ECO}	5	V
Collector Current	I _C	20	mA
Operating Temperature	Topr	-25 ~ +85°C	$^{\circ}\!$
Storage Temperature	Tstg	-40 ~ +85°C	$^{\circ}\!$
Lead Soldering Temperature(*1)	Tsol	260	${\mathbb C}$
Power Dissipation at (or below) 25℃ Free Air Temperature	P_D	75	mW

Notes: *1:Soldering time ≤ 5 seconds.



Electro-Optical Characteristics (Ta=25°C)

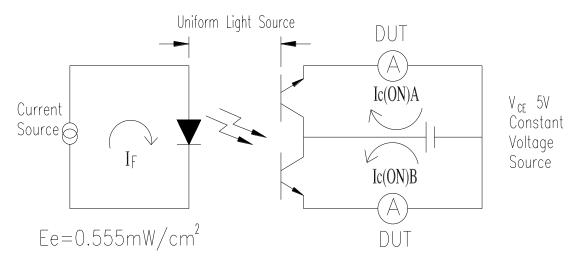
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Collector – Emitter Breakdown Voltage	BV _{CEO}	I _C =100μA Ee=0mW/cm ²	30			V
Emitter-Collector Breakdown Voltage	BV _{ECO}	I _E =100μA Ee=0mW/cm ²	5			V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =2mA Ee=1mW/cm ²			0.4	V
Rise Time	t _r	$V_{CE}=5V$ $I_{C}=1mA$ $R_{L}=1000\Omega$		15		μS
Fall Time	t _f			15		
Collector Dark Current	I _{CEO}	Ee=0mW/cm ² V _{CE} =20V			100	nA
On State Collector Current	I _{C(on)}	V_{CE} =5V, Ee=0.555mW/cm ²	330		703	μΑ
Wavelength of Peak Sensitivity	λр			940		nm
Rang of Spectral Bandwidth	λ _{0.5}		760		1100	nm



Test Method For On State Collector Current:

Condition: Ee=0.555mW/cm², V_{CE}=5V Test Item: Collector Current [I_{C(on)}]

Unit: µA

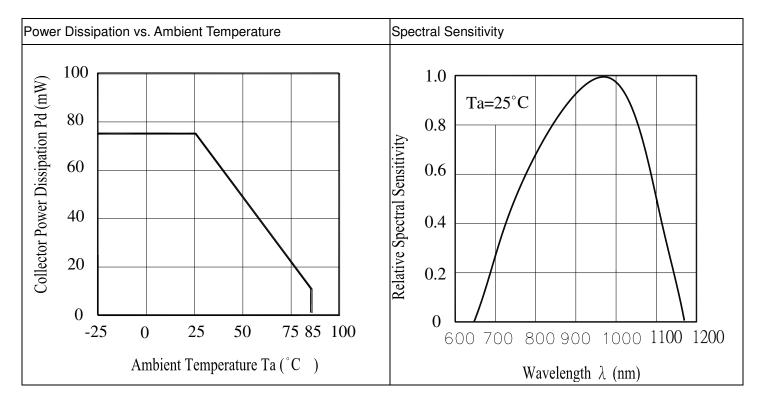


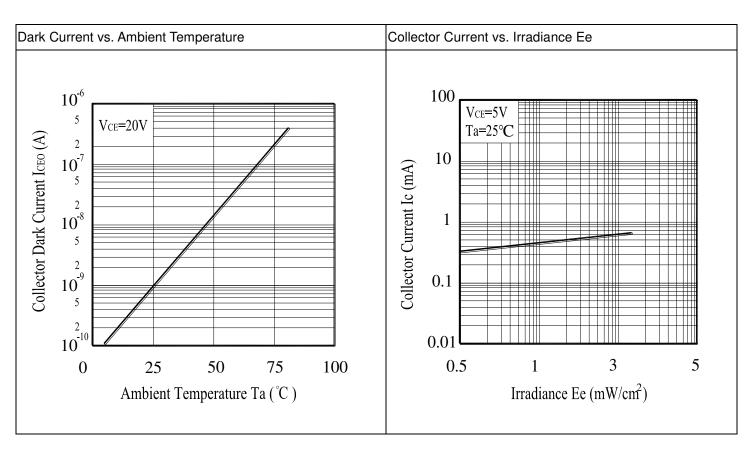
To Distinguish Intensity: Condition:V_{CE}:5V Ee:0.555mW/cm² Ranks

Ranks Test Condition Symbol Min Unit Тур Max $\overline{Ee} = 0.555 \text{ m W} / \text{Vc}_{CE} = 5 \text{ V}$ **A4** 330 ---461 μΑ $I_{C(ON)}$ $Ee = 0.555 \text{ m W} / \text{Vc}_{CE} = 5 \text{ V}$ **A5** 398 ---544 μΑ $I_{C(ON)}$ $Ee=0.555 \text{ m W} / \text{Vc}_{CE}=5 \text{ V}$ A6 468 625 --μΑ $I_{C(ON)}$ Α7 536 ---703 μΑ $Ee=0.555 \text{ m W} / \text{C}_{CE}=5 \text{ V}$ $I_{C(ON)}$



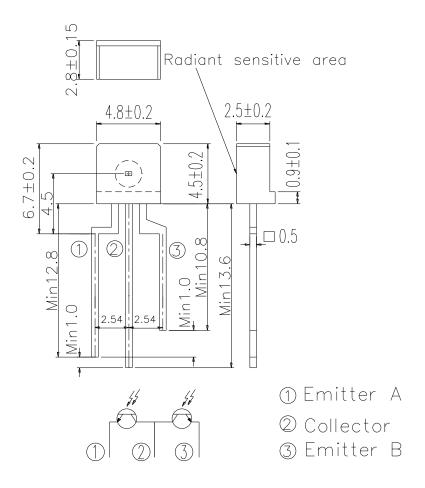
Typical Electro-Optical Characteristics Curves







Package Dimension



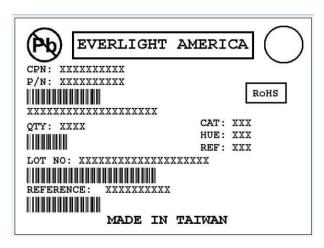
Note: Tolerances unless dimensions ±0.25mm



Packing Quantity Specification

- 1. 1000PCS/1Bag,6Bag/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 RankREF: Forward Voltage Rank
- · LOT No: Lot Number
- X: Month
- · Reference: Identify Label Number

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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