

DATASHEET

Technical Data Sheet

3mm Infrared LED, T-1

HIR204C/H0



Features

- High reliability
- 2.54mm lead spacing
- · Low forward voltage
- Good spectral matching to Si photodetector
- · High radiant intensity
- Pb free
- •The product itself will remain within RoHS compliant version.



Description

EVERLIGHT's infrared emitting (HIR204C/H0)

is a high intensity diode, molded in a water clear plastic package.

The device is spectrally matched with phototransistor, photodiode and infrared receive module.

Applications

•Infrared applied system

Device Selection Guide

LED Part No.	Chip Material	Lens Color
HIR204C/H0	GaAlAs	Water clear

Absolute Maximum Ratings (Ta=25℃)



Parameter		Symbol	Rating	Unit	
Continuous Forward Current		I _F	100	mA	
Peak Forward Current	*1	I _{FP}	1.0	Α	
Reverse Voltage		V_{R}	5	V	
Operating Temperature		T_{opr}	-40~ +85	$^{\circ}\mathbb{C}$	
Storage Temperature		T _{stg}	-40 ~ +100	$^{\circ}\!\mathbb{C}$	
Soldering Temperature	*2	T _{sol}	260	$^{\circ}\!\mathbb{C}$	
Power Dissipation at(or below)		D	150		
25°C Free Air Temperature		P_d	150	mW	

Notes: *1:I_{FP} Conditions--Pulse Width \leq 100 μs and Duty \leq 1%.

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Radiant Intensity	ΙΕ	11	-	48	mW/sr	I _F =20mA	
Peak Wavelength	λр	-	850	-	nm	I _F =20mA	
Spectral Bandwidth	Δλ	-	45	-	nm	I _F =20mA	
Forward Voltage	V _F	-	1.45	1.65	V	V	I _F =20mA
		-	1.8	2.4		I _F =100mA	
Reverse Current	I _R	-	-	10	μA	V _R =5V	
View angle	201/2	-	40	-	degree	I _F =20mA	

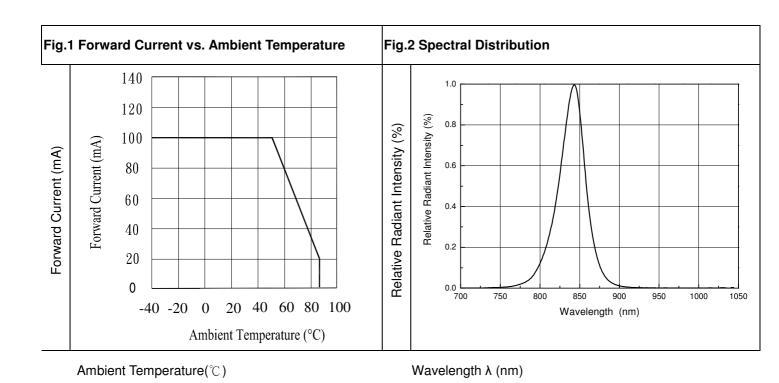
Rank

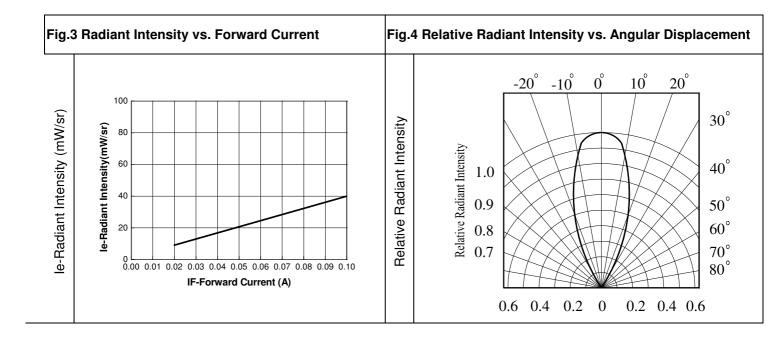
Condition : $I_F=20mA$

Unit: mW/sr

Bin Number	N	P	Q	R
Min	11.0	15.0	21.0	30.0
Max	17.6	24.0	34.0	48.0

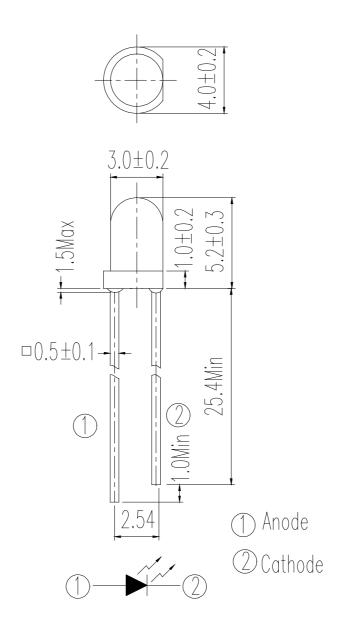
^{*2:}Soldering time \leq 5 seconds.







Package Dimension



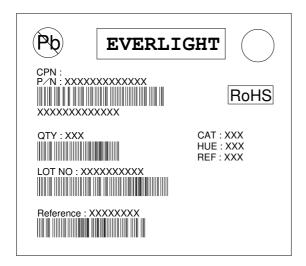
Notes: 1. All dimensions are in millimeters

2. Tolerances unless dimensions ±0.25mm

Moisture Resistant Packing Materials

Label Form Specification





CPN: Customer's Production Number

P/N : Production Number QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

Notes

- 1. Above specification may be changed without notice. EVERLIGHT 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 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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EVERLIGHT ELECTRONICS CO., LTD.

Tel: 886-2-2267-2000, 2267-9936

Office: No 25, Lane 76, Sec 3, Chung Yang Rd,

Fax: 886-2267-6244, 2267-6189, 2267-6306

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