

DATASHEET

Technical Data Sheet

3mm Infrared LED, T-1

IR204/H16/L10



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.
- Compliance with EU REACH
- Compliance Halogen Free(Br < 900ppm, Cl < 900ppm, Br+Cl < 1500ppm)



Description

EVERLIGHT's infrared emitting (IR204/H16/L10)

is a high intensity diode, molded in a blue transparent 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
IR204/H16/L10	GaAlAs	Blue

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit	
Continuous Forward	l _F	100	mA	
Current	'F	100	IIIA	
Peak Forward Current		4.0		
*1	I _{FP}	1.0	А	
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	-	000	0.0	
*2	T_{sol}	260	${\mathbb C}$	
Power Dissipation at(or				
below)	P_d	150	mW	
25°C Free Air Temperature				

Notes: *1:IFP Conditions--Pulse Width $\leq\!100\mu s$ and Duty $\leq\!1\%.$

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



Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Radiant Intensity	ΙE	4.0	-	17.6	mW/sr	I _F =20mA
Peak Wavelength	λр	ı	940	-	nm	I _F =20mA
Spectral Bandwidth	Δλ	-	45	-	nm	I _F =20mA
Forward Voltage	V _F	-	1.2	1.5	V	I _F =20mA
Reverse Current	I _R	-	-	10	μA	V _R =5V
View angle	201/2	-	50	-	degree	I _F =20mA

Rank

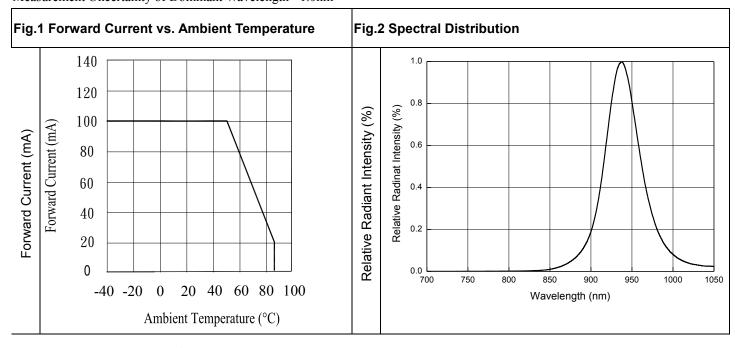
Condition : I_F =20mA

Unit: mW/sr

Bin Number	K	L	M	N
Min	4.0	5.6	7.8	11.0
Max	6.4	8.9	12.5	17.6

Note:

^{*}Measurement Uncertainty of Dominant Wavelength ±1.0nm



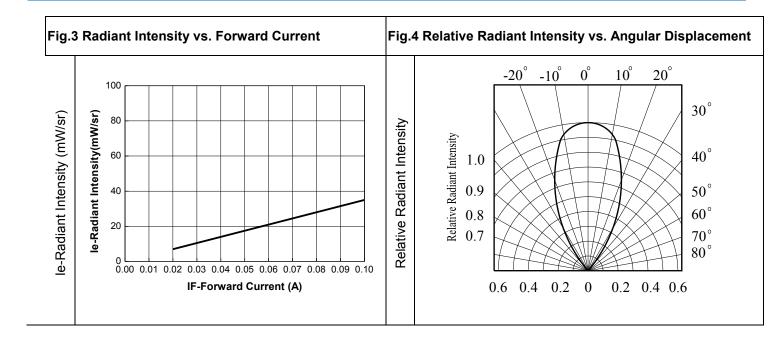
Ambient Temperature(°C)

Wavelength λ (nm)

^{*}Measurement Uncertainty of Forward Voltage: ±0.1V

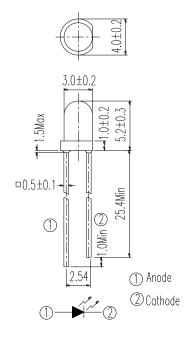
^{*}Measurement Uncertainty of Luminous Intensity: ±10%





Packing Quantity Specification

- 1. 200~1000PCS/1Bag,4Bags/1Box
- 2. 10Boxes/1Carton



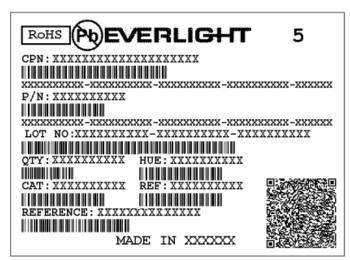
Notes: 1. All dimensions are in millimeters

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

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- 2. The product meets EVERLIGHT published specification for a period of twelve (12) months from da of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guarantee values.
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