ZIR053-35

Technical Data Sheet

5mm Infrared LED

Descriptions

The ZIR053-35 is a high intensity diode , molded in a blue plastic package. The device is spectrally matched with phototransistor , photodiode and infrared receiver module.

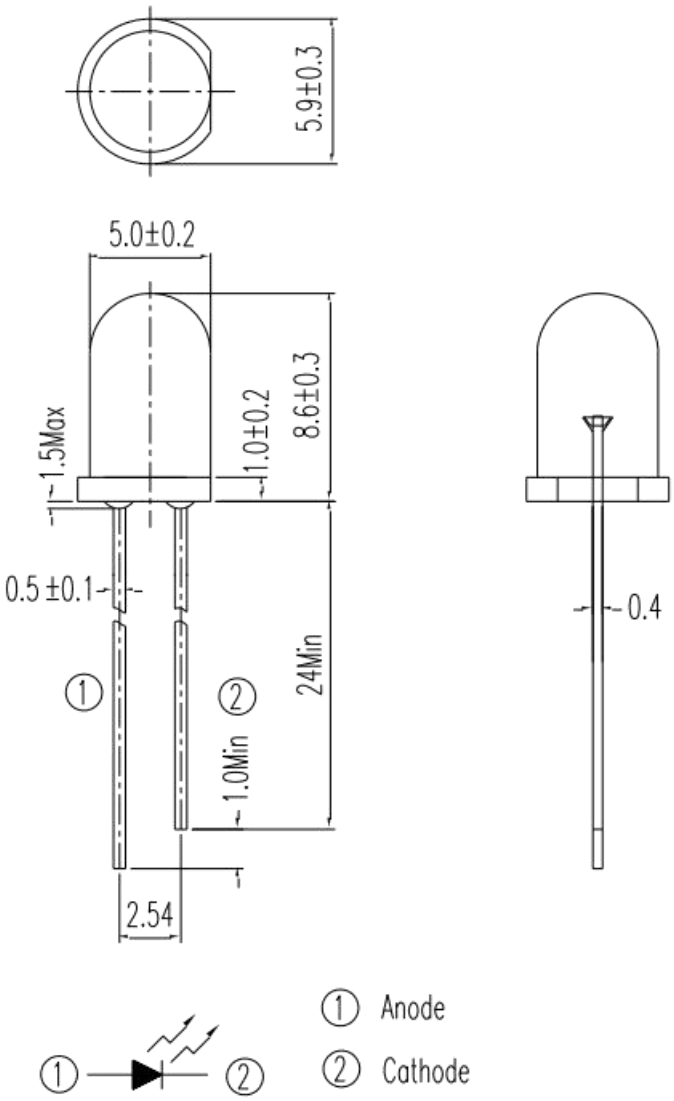
Features

- High reliability
- High radiant intensity
- Peak wavelength λp=940nm
- Low forward voltage
- Pb.Free
- This product itself will remain within RoHS compliant version.

Applications

- Mouse
- Optoelectronic switch
- Copiers
- Scanners
- Amusement machines

Package Dimension



Notes:
1.All dimensions are in millimeters
2.Tolerances unless dimensions ±0.3mm
3.Lead spacing is measured where the lead emerge from the package

Absolute Maximum Ratings

Parameter（Ta=25℃）	Symbol	Ratings	Unit
Power Dissipation at(or below) 25 Free Air Temperature	Pd	150	mW
Reverse Voltage	V_R	5	V
Forward Current	I_F	100	mA
Peak Forward Current Pulse width≦100μs,Duty cycle= 1%	I_{FP}	1	A
Operating Temperature	Topr	-40~+85	℃
Storage Temperature	Tstg	-40~+100	℃
Lead Soldering Temperature (2mm form body for 5 seconds)	Tsol	260	℃

Electro-Optical Characteristics

Paramete（Ta=25℃）	Symbol	Condition	Min.	Typ.	Max.	Units
Radiant Intensity	Ee	I_F=20mA	14.3	--	18.0	mW/sr
Radiant Intensity	Ee	IF=100mA PulseWidth≦100μs ,Duty≦1%	--	38	--	mW/sr
Radiant Intensity	Ee	IF=1A PulseWidth≦100μs ,Duty≦1%.	--	450	--	mW/sr
Peak Wavelength	λp	I_F=20mA	--	940	--	nm
Spectral Bandwidth	Δλ	I_F=20mA	--	45	--	nm
Forward Voltage	V_F	I_F=20mA	--	1.2	1.5	V
Reverse Current	I_R	V_R=5V	--	--	10	μA
View Angle	2θ1/2	I_F=20mA	--	40	--	deg

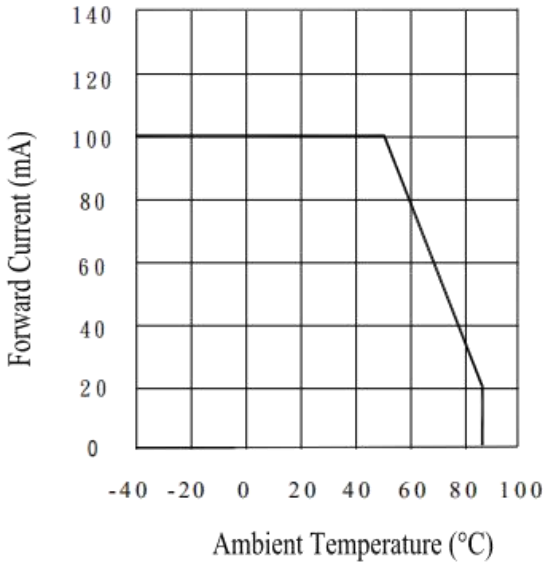
Rank

Parameter	Symbol	Condition	Min.	Max.	Unit
M	Ee	I_F=20mA	7.8	12.5	mW/sr
N	Ee	I_F=20mA	11.0	17.6	mW/sr

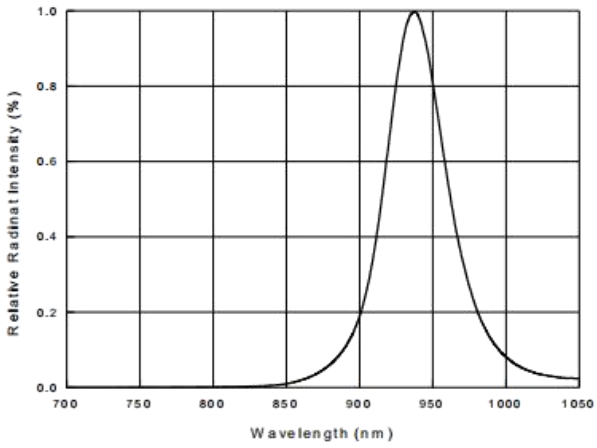
Note:
*Measurement Uncertainty of Forward Voltage: ±0.1V
*Measurement Uncertainty of Luminous Intensity: ±10%
*Measurement Uncertainty of Dominant Wavelength ±1.0nm

Typical Electrical/Optical/Characteristics Curves

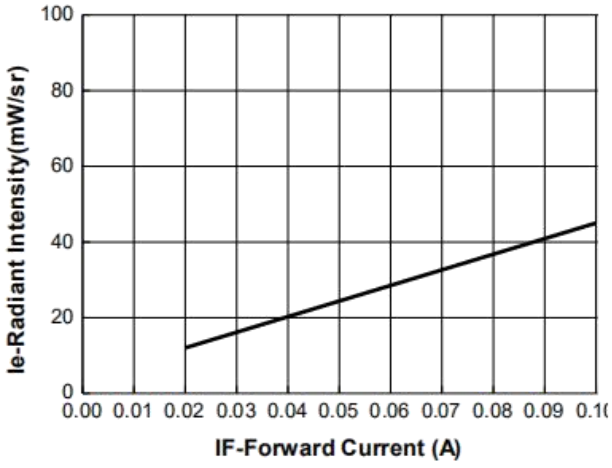
Forward Current vs. Ambient Temperature



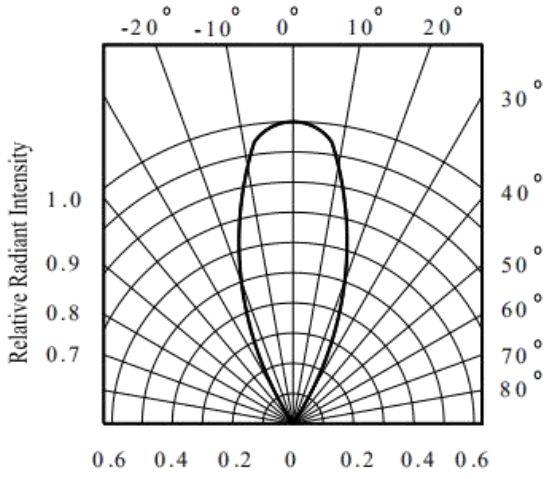
Spectral Distribution



Radiant Intensity vs. Forward Current



Relative Radiant Intensity vs. Angular Displacement



Packing Quantity Specification

1.500PCS/1bag, 4bags/1 Box
2. 10BOXES/1 Carton

Notes

1. Above specification may be changed without notice. CHAU LIGHT will reserve authority on material change for above specification.

2. When using this product, please observe the absolute maximum ratings and the instruction for using outlined in these specification sheets. CHAU LIGHT 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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