

EXCEED light-emitting diode



Specification For Approval

Customer: _____

Description: LED-LAMP

Part number: RL30-TUR1TYG137P

Date: 2006-8-30

Approved By:

Prepared By:

Approval	Check	Design	Sales
		Lihui	

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD

www.exceedledcn.com

EXCEED light-emitting diode



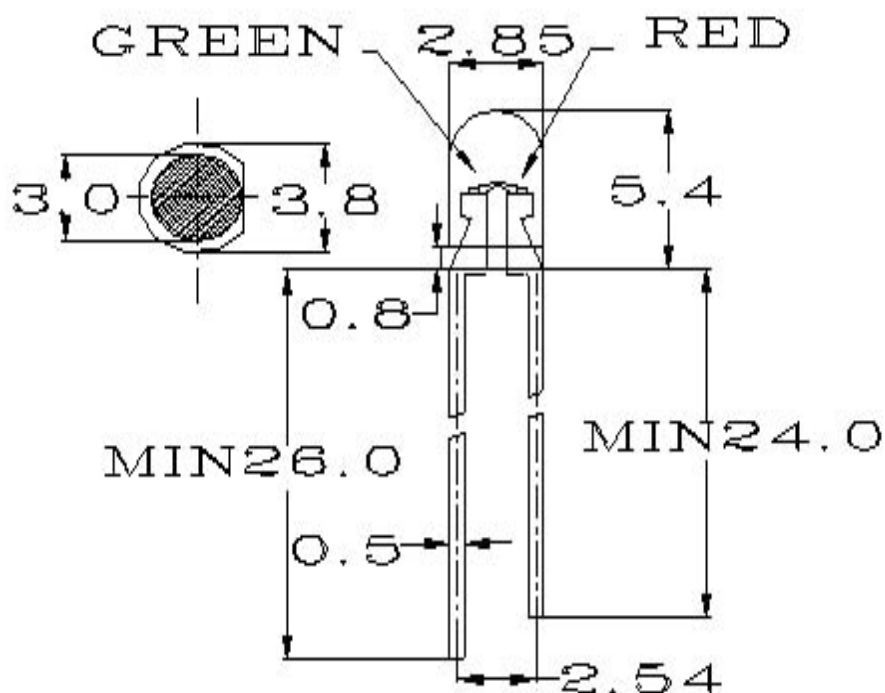
PartNumber:RL30-TUR1TYG137P

Features

- 1.Low power consumption .
- 2.High efficiency.
- 3.Versatile mounting on p.c board or panel.
- 4.I.C compatible/ low current requirement.

★Package Dimensions

Unit: mm



NOTE: TOLERANCE ± 0.2 mm

★ Selection Guide

Part Number	Lens color	Chip		
		Material	Emitted color	λ p(nm)
RL30-TUR1TYG137P	Diffuse	AlGaInP/GaAS	RED	638
		AlGaInP/GaAS	GREEN	568

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TECHNICAL SPECIFICATION

Part Number: RL30-TUR1TYG137P(RED)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	1.5	1.7	2.4	V	If=20mA
Peak Wavelength	λ_p	636	638	640	nm	
Reverse Current	IR			40	μ A	VR=5V
Power dissipation	Pd			110	mW	
Luminous Intensity	IV	280	320		mcd	If=20mA
Peak Forward Current	If(Peak)			200	mA	
Recommend Forward Current	If(Rec)		20		mA	
Full Viewing Angle	2θ 1/2		90		deg	If=20mA

NOTE:

1.Luminous intensity is measured with a light sensor and fillister combination that approximates the CIE eye-response curve Tester: EG&G DR-2550.

2.IV classification code is marked on each packing bag. The IV base on line-on's bin classification. The IV guarantee should be add $\pm 15\%$

3.Absolute maximum ratings: (Ta=25°C)

4.Operating temperature : -40°C TO 80°C

5.Lead soldering: 260°C for 5 seconds

EXCEED Light-emitting diode



Part Number: **RL30-TUR1TYG139T1**

RED

Fig1. Forward Current vs Forward Voltage

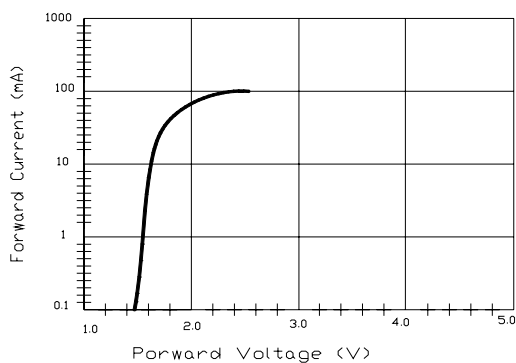


Fig2. Relative Intensity vs Forward Current

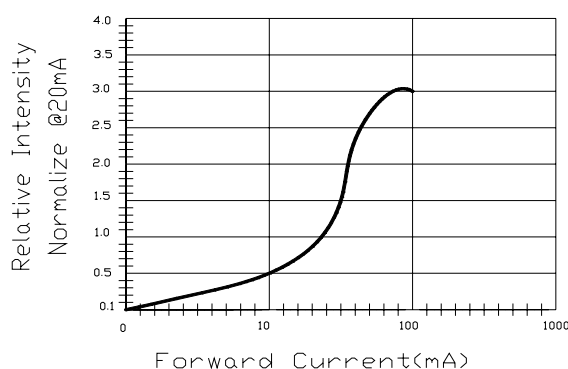


Fig3. Forward Voltage vs Temperature

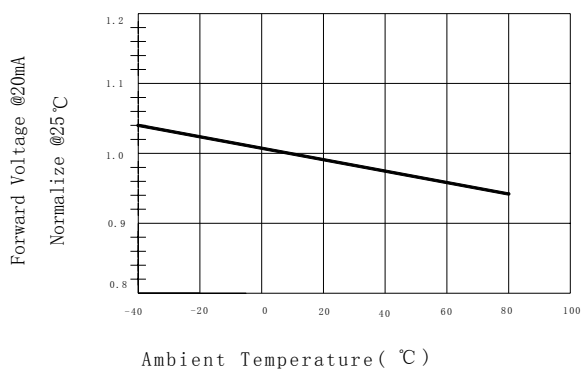


Fig4. Relative Intensity vs Temperature

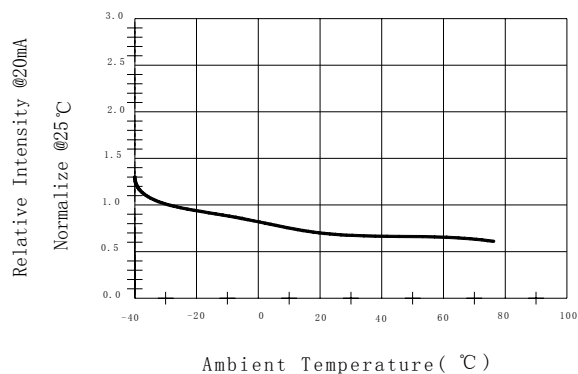


Fig5. Relative Intensity vs Wavelength

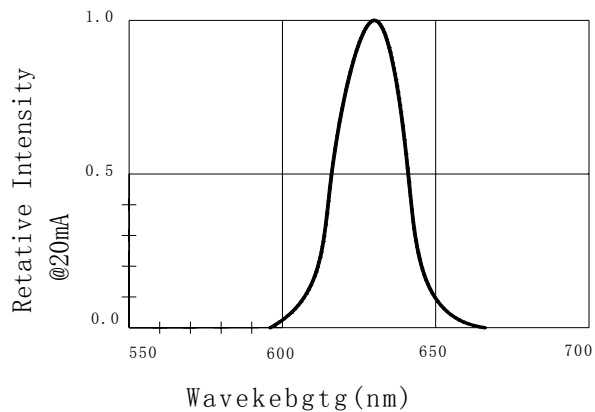
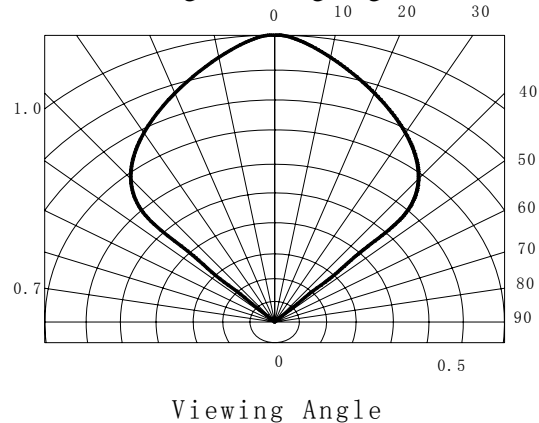


Fig6. Viewing Angle



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TECHNICAL SPECIFICATION

Part Number: RL30-TUR1TYG137P(GREEN)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	3.0	3.4	3.8	V	If=20mA
Peak Wavelength	λ_p	566	568	570	nm	
Reverse Current	IR			10	μ A	VR=5V
Power dissipation	Pd			100	mW	
Luminous Intensity	IV	250	300		mcd	If=20mA
Peak Forward Current	If(Peak)			160	mA	
Recommend Forward Current	If(Rec)		20		mA	
Full Viewing Angle	2θ 1/2		90		deg	If=20mA

NOTE:

1.Luminous intensity is measured with a light sensor and fillister combination that approximates the CIE eye-response curve Tester: EG&G DR-2550.

2.IV classification code is marked on each packing bag. The IV base on line-on's bin classification. The IV guarantee should be add $\pm 15\%$

3.Absolute maximum ratings: (Ta=25°C)

4.Operating temperature : -40°C TO 80°C

5.Lead soldering: 260°C for 5 seconds

EXCEED Light-emitting diode



Part Number: **RL30-TUR1TYG139T1**

Green

Fig1. Forward Current vs Forward Voltage

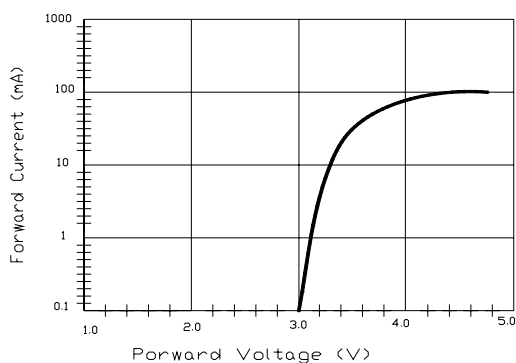


Fig2. Relative Intensity vs Forward Current

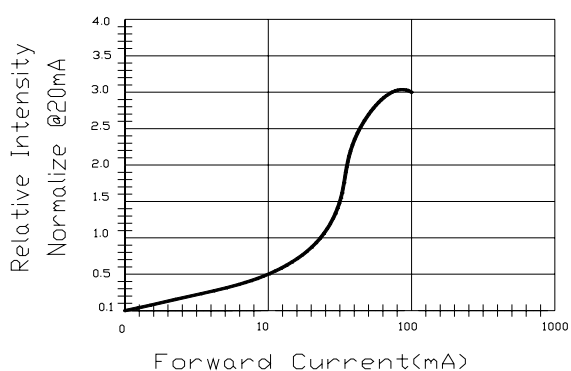


Fig3. Forward Voltage vs Temperature

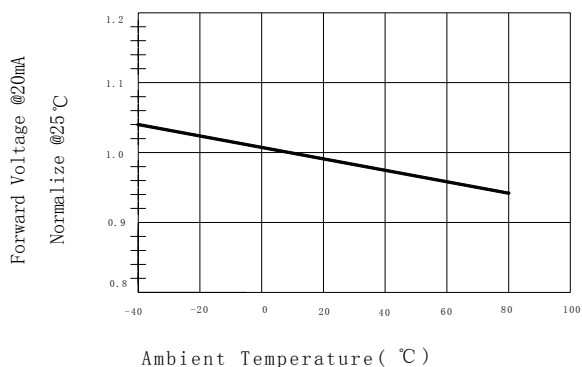


Fig4. Relative Intensity vs Temperature

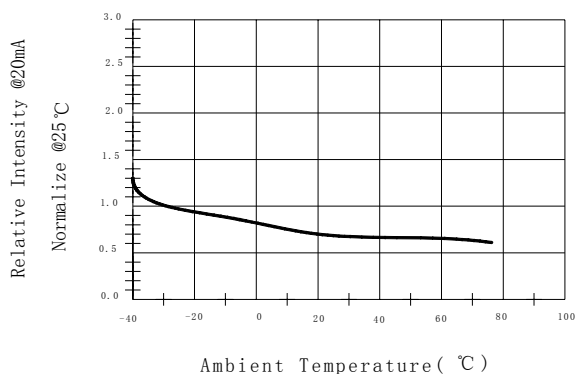


Fig5. Relative Intensity vs Wavelength

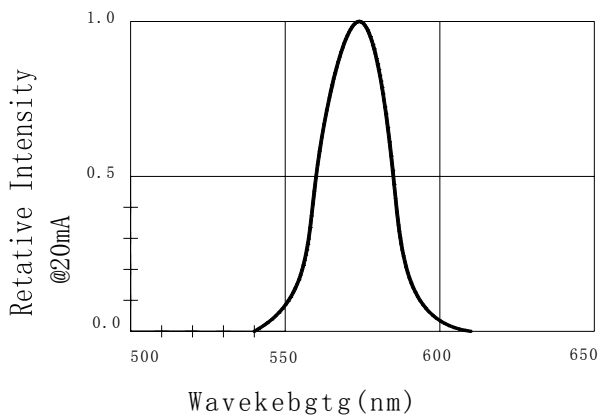


Fig6. Viewing Angle

