

EXCEED Light-emitting diode



Specification For Approval

Customer: _____

Description: LED-LAMP

Part number: RL50-HO3YG439F1

Date: 2006-1-3

Approved By:

Prepared By:

Approval	Check	Design	Sales

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD

www.exceedledcn.com

EXCEED

Light-emitting diode



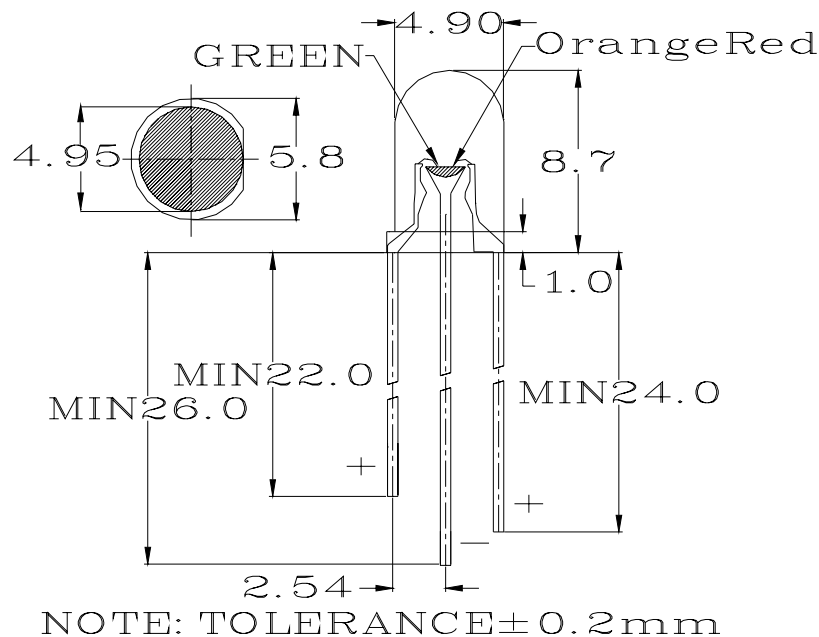
PartNumber: RL50-HO3YG439F1

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



★ Selection Guide

Part Number	Lens color	Chip		
		Material	Emitted color	λ p(nm)
RL50-HO3YG439F1	Diffuse	GaAsP/GaP	RED ORANGE	630
		GaP/GaP	GREEN	570

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Light-emitting diode



TECHNICAL SPECIFICATION

Part Number: RL50-HO3YG439F1(RED ORANGE)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	1.7	2.0	2.8	V	If=20mA
Peak Wavelength	λ_p	625	630	635	nm	
Reverse Current	IR			40	μ A	VR=5V
Power dissipation	Pd			85	mW	
Luminous Intensity	IV	29	38		mcd	If=20mA
Peak Forward Current	If(Peak)			160	mA	
Recommend Forward Current	If(Rec)		20		mA	
Full Viewing Angle	$2\theta_{1/2}$		60		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: **RL50-HO3YG439F1**

Red Orange

Fig1. Forward Current vs Forward Voltage

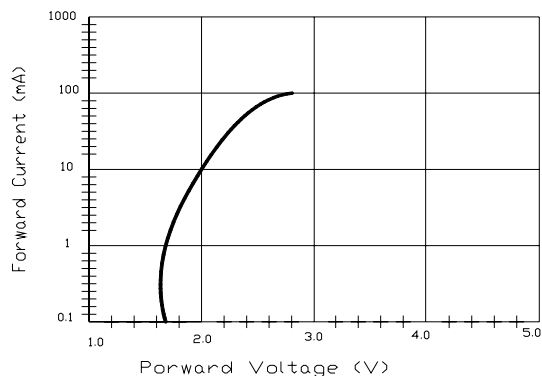


Fig2. Relative Intensity vs Forward Current

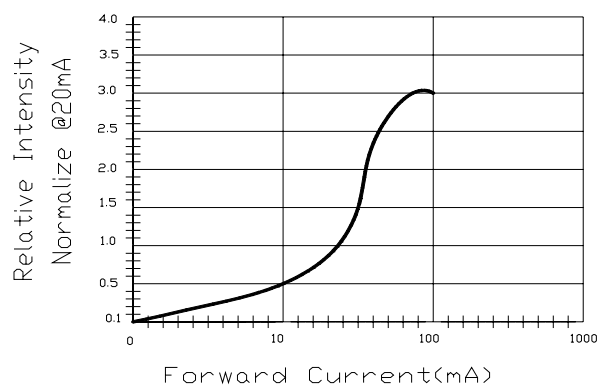


Fig3. Forward Voltage vs Temperature

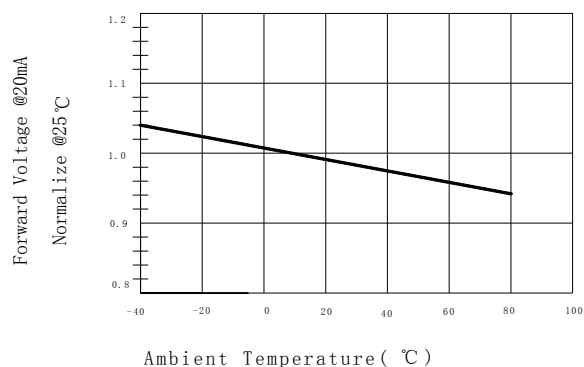


Fig4. Relative Intensity vs Temperature

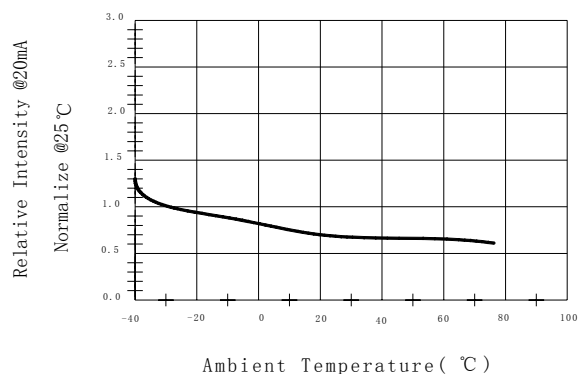


Fig5. Relative Intensity vs Wavelength

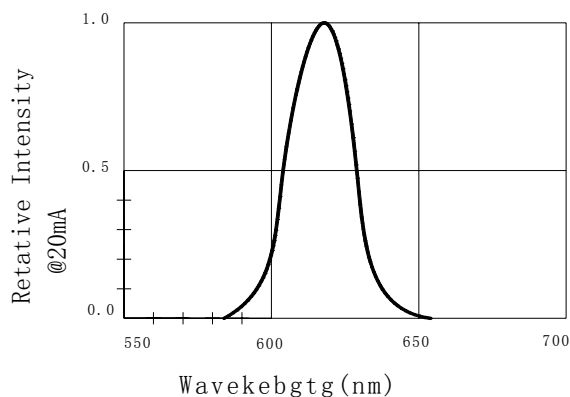
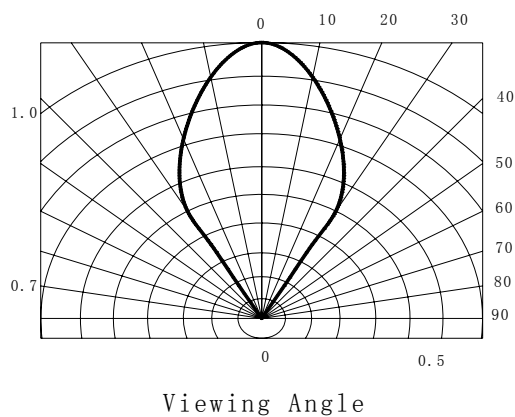


Fig6. Viewing Angle



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Light-emitting diode



TECHNICAL SPECIFICATION

Part Number: RL50-HO3YG439F1(GREEN)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	1.7	2.1	2.8	V	If=20mA
Peak Wavelength	λ_p	568	570	573	nm	
Reverse Current	IR			40	μ A	VR=5V
Power dissipation	Pd			120	mW	
Luminous Intensity	IV	26	34		mcd	If=20mA
Peak Forward Current	If(Peak)			160	mA	
Recommend Forward Current	If(Rec)		10-20		mA	
Full Viewing Angle	$2\theta_{1/2}$		60		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: RL50-HO3YG439F1

Green

Fig1. Forward Current vs Forward Voltage

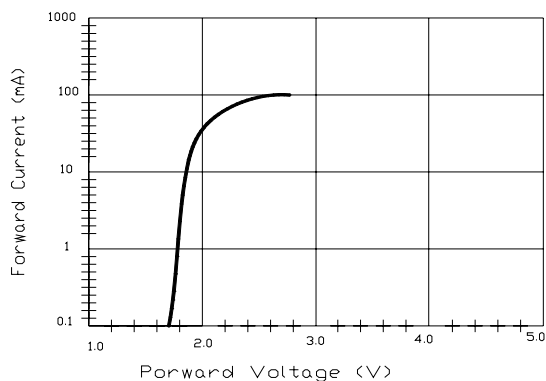


Fig2. Relative Intensity vs Forward Current

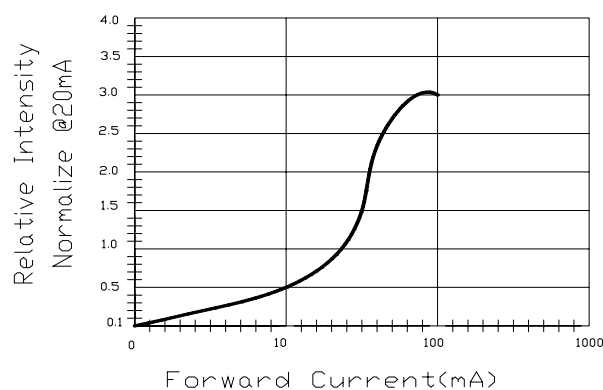


Fig3. Forward Voltage vs Temperature

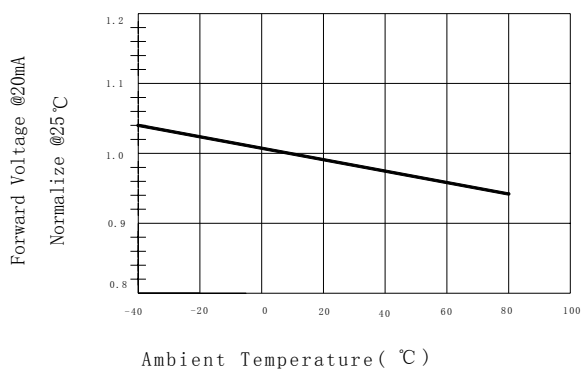


Fig4. Relative Intensity vs Temperature

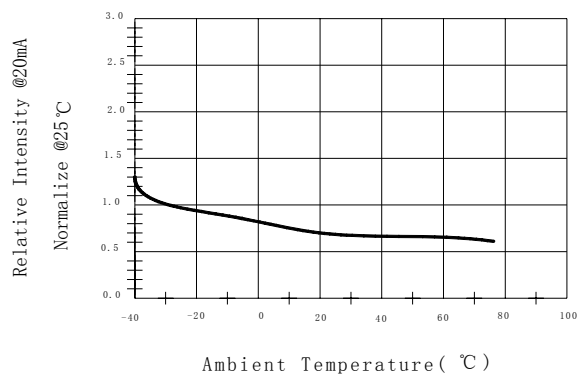


Fig5. Relative Intensity vs Wavelength

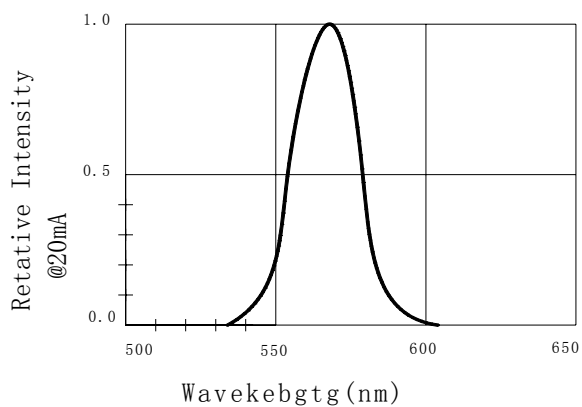


Fig6. Viewing Angle

