

# **EXCEED** Light-emitting diode



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## Specification For Approval

**Customer:** \_\_\_\_\_

**Description:** LED-LAMP

**Part number:** RL30N-SR2YG439T2

**Date:** 2006-2-27

**Approved By:**

**Prepared By:**

Approval	Check	Design	Sales

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD

[www.exceedledcn.com](http://www.exceedledcn.com)

# EXCEED

## Light-emitting diode



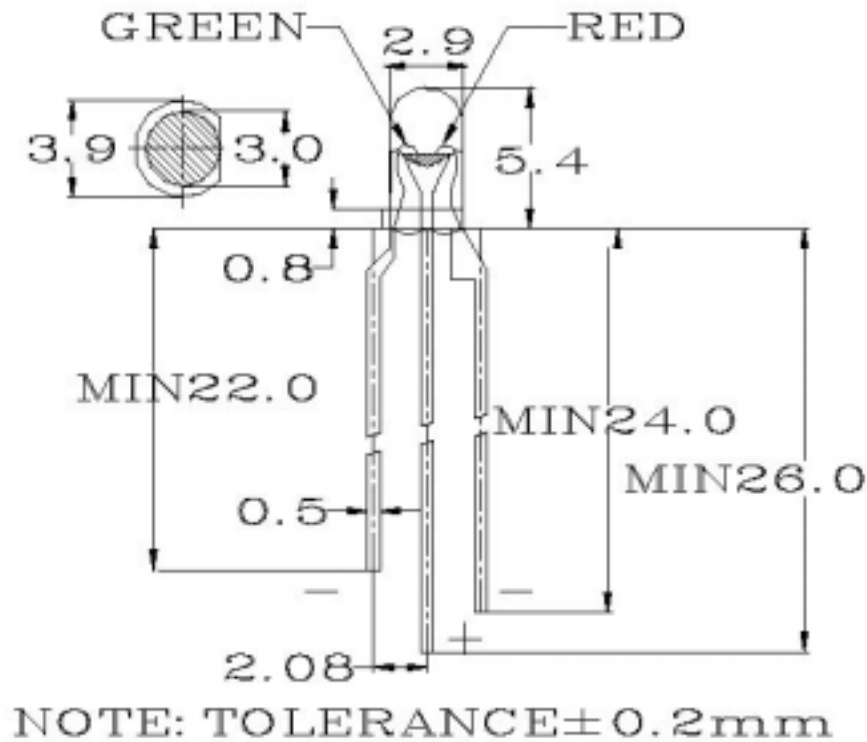
**PartNumber:RL30N-SR2YG439T2**

### 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	p(nm)
RL30N-SR2YG439T2	Diffuse	GaAlAs/GaAs	RED	645
		GaP/GaP	GREEN	570

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# EXCEED

## Light-emitting diode



### TECHNICAL SPECIFICATION

Part Number: RL30N-SR2YG439T2(RED)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	1.5	1.7	2.4	V	If=20mA
Peak Wavelength	p	640	645	650	nm	
Reverse Current	IR			40	μ A	VR=5V
Power dissipation	Pd			110	mW	
Luminous Intensity	IV	70	90		mcd	If=20mA
Peak Forward Current	If(Peak)			200	mA	
Recommend Forward Current	If(Rec)		20		mA	
Full Viewing Angle	2 1/2		50		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.

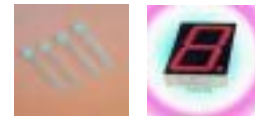
2.IV classification code is marked on each packing bag. The IV base on line-on's bin classification. The IV guarantee should be add  $\pm 15\%$

3.Absolute maximum ratings: (Ta=25 )

4.Operating temperature : -40 TO 80

5.Lead soldering: 260 for 5 seconds

# EXCEED Light-emitting diode



Part Number: **RL30N-SR2YG439T2**

Red

Fig1. Forward Current vs Forward Voltage

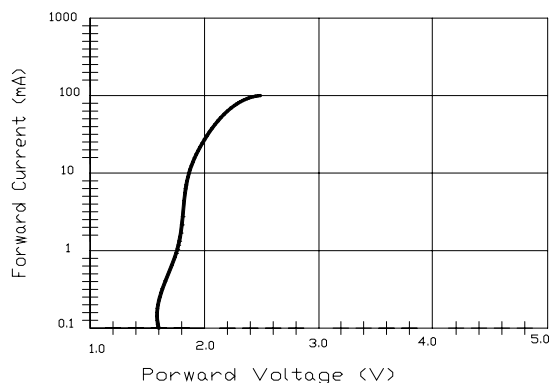


Fig2. Relative Intensity vs Forward Current

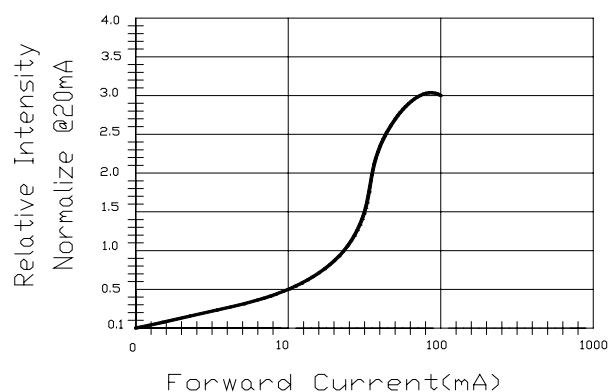


Fig3. Forward Voltage vs Temperature

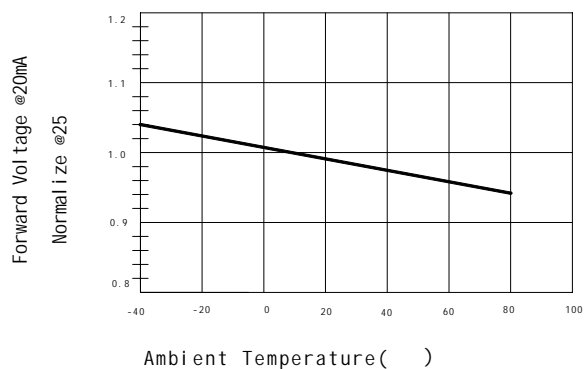


Fig4. Relative Intensity vs Temperature

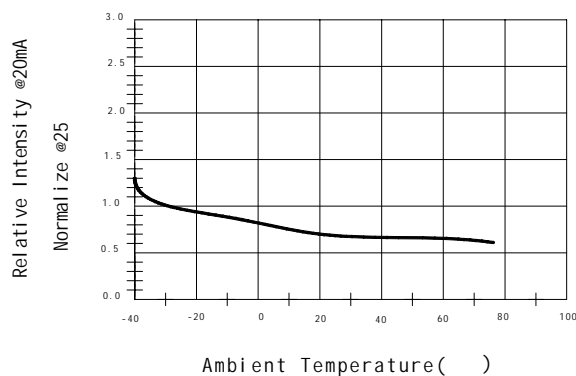


Fig5. Relative Intensity vs Wavelength

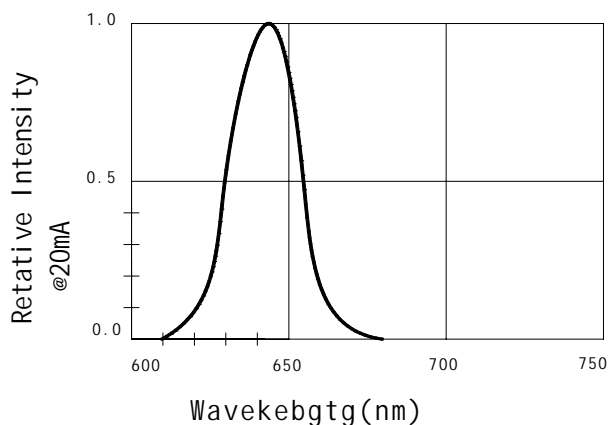
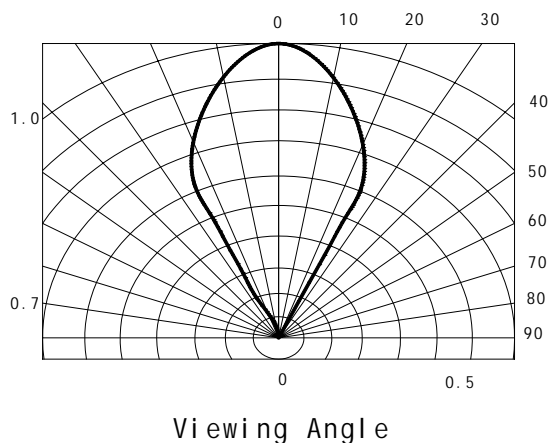


Fig6. Viewing Angle



# EXCEED

## Light-emitting diode



### TECHNICAL SPECIFICATION

Part Number: RL30N-SR2YG439T2(GREEN)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	1.7	2.1	2.8	V	If=20mA
Peak Wavelength	p	568	570	573	nm	
Reverse Current	IR			40	μ A	VR=5V
Power dissipation	Pd			120	mW	
Luminous Intensity	IV	22	35		mcd	If=20mA
Peak Forward Current	If(Peak)			160	mA	
Recommend Forward Current	If(Rec)		10-20		mA	
Full Viewing Angle	2 1/2		50		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.

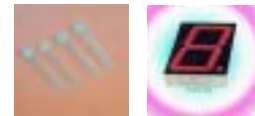
2.IV classification code is marked on each packing bag. The IV base on line-on's bin classification. The IV guarantee should be add  $\pm 15\%$

3.Absolute maximum ratings: (Ta=25 )

4.Operating temperature : -40 TO 80

5.Lead soldering: 260 for 5 seconds

# EXCEED Light-emitting diode



Part Number: **RL30N-SR2YG439T2**

## Green

Fig1. Forward Current vs Forward Voltage

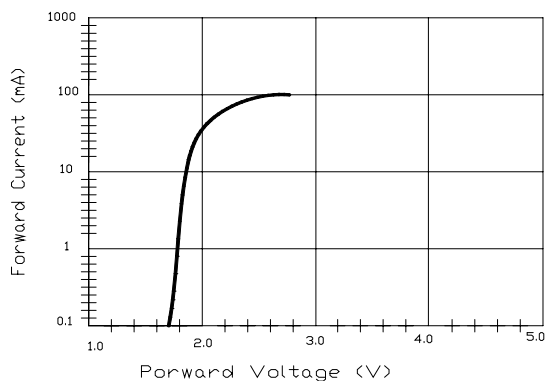


Fig2. Relative Intensity vs Forward Current

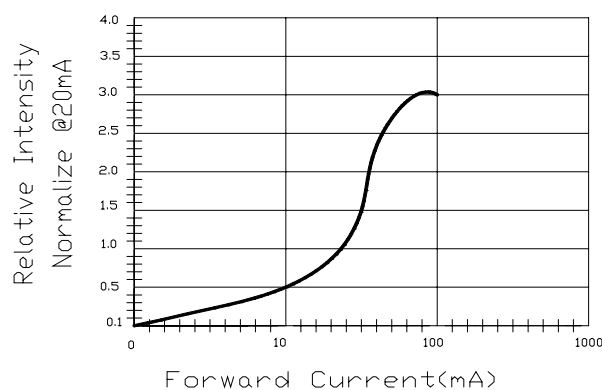


Fig3. Forward Voltage vs Temperature

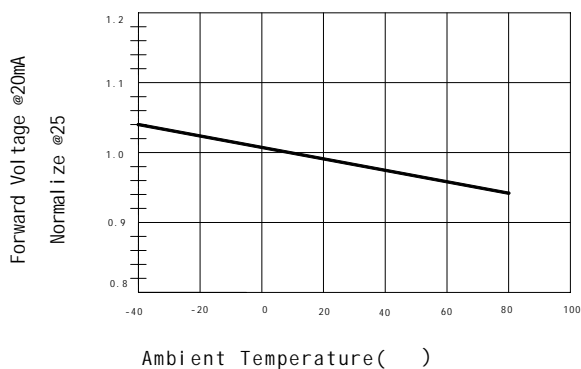


Fig4. Relative Intensity vs Temperature

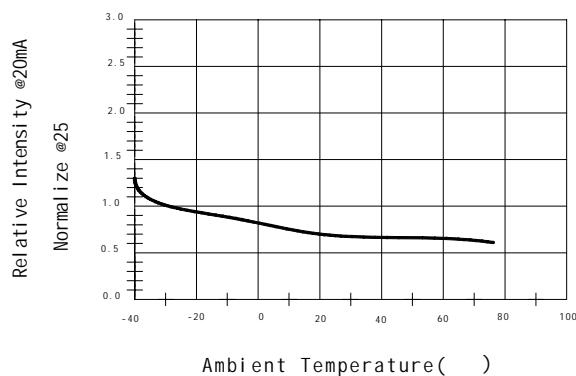


Fig5. Relative Intensity vs Wavelength

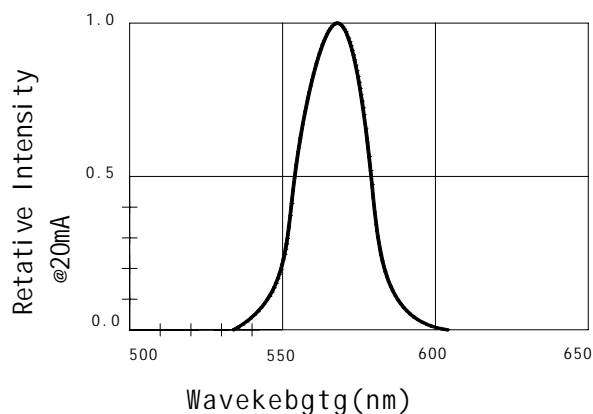


Fig6. Viewing Angle

