

# **EXCEED** light-emitting diode



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## Specification For Approval

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

**Description:** LED-LAMP

**Part number:** RL50-TUR1TYG136P

**Date:** 2005-12-03

**Approved By:**

**Prepared By:**

Approval	Check	Design	Sales
		Li Hui	

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD

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

# EXCEED light-emitting diode



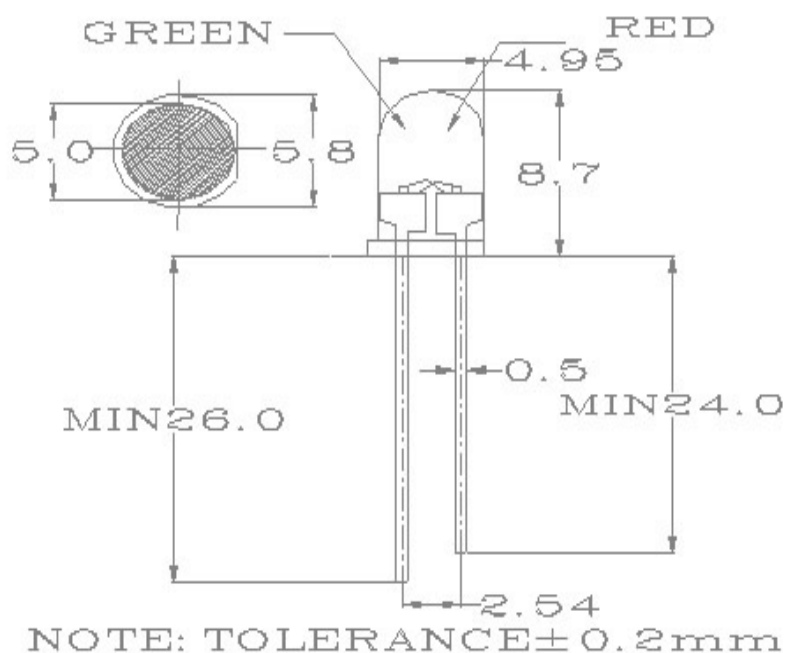
**PartNumber:RL50-TUR1TYG136P**

## 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	$\lambda$ p(nm)
RL50-TUR1TYG1 36P	Diffused	AIGaInP/GaAS	RED	638
		AIGaInP/GaAS	GREEN	568

# EXCEED

## light-emitting diode



### TECHNICAL SPECIFICATION

Part Number: RL50-TUR1TYG136P(RED)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	1.7	2.0	2.8	V	If=20mA
Peak Wavelength	$\lambda_p$	636	638	640	nm	
Reverse Current	IR			90	$\mu$ A	VR=5V
Power dissipation	Pd			110	mW	
Luminous Intensity	IV	400	430	450	mcd	If=20mA
Peak Forward Current	If(Peak)			200	mA	
Recommend Forward Current	If(Rec)		20		mA	
Full Viewing Angle	$2\theta$ 1/2		70		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



### TECHNICAL SPECIFICATION

Part Number: RL50-TUR1TYG136P(GREEN)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	1.7	2.1	2.8	V	If=20mA
Peak Wavelength	$\lambda_p$	566	568	570	nm	
Reverse Current	IR			90	$\mu$ A	VR=5V
Power dissipation	Pd			100	mW	
Luminous Intensity	IV	350	380	400	mcd	If=20mA
Peak Forward Current	If(Peak)			160	mA	
Recommend Forward Current	If(Rec)		20		mA	
Full Viewing Angle	$2\theta$ 1/2		70°		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