



## Specification For Approval

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

**Description:** **LED-LAMP**

**Part number:** **RL50-S3CB746/I8**

**Date:** **2006-11-28**

**Approved By:**

**Prepared By:**

Approval	Check	Design	Sales
		yu	

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD

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



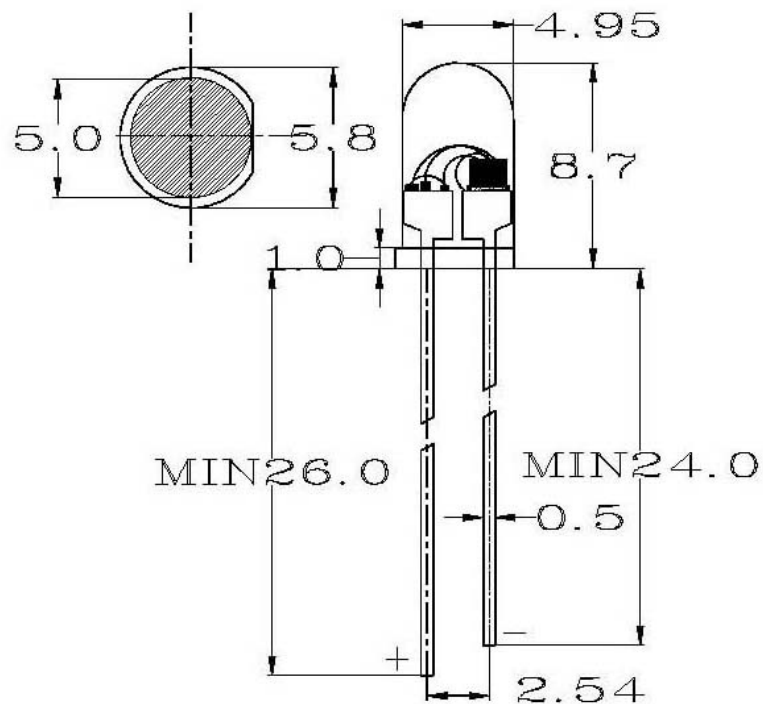
**PartNumber: RL50-S3CB746/I8**

## 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  $\pm 0.2$ mm

## ★ Selection Guide

Part Number	Lens color	Chip		
		Material	Emitted color	$\lambda$ p(nm)
RL50-S3CB746/I8	Water	GaAlAs/GaAs	RED	625
	Clear	InGaN/GaN	BLUE	465



# Light-emitting diode



## TECHNICAL SPECIFICATION

Part Number: RL50-S3CB746/I8(RED)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	4.0	4.5	5.0	V	If=20mA
Peak Wavelength	$\lambda_p$	620	625	635	nm	
Reverse Current	IR			100	$\mu$ A	VR=5V
Power dissipation	Pd		110		mW	
Luminous Intensity	IV	1000	1500	2000	mcd	If=20mA
Peak Forward Current	If(Peak)			20	mA	
Recommend Forward Current	If(Rec)		30		mA	
Blinking frequency	Fblk		2.8		HZ	VDD=5V

### 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



# Light-emitting diode



## TECHNICAL SPECIFICATION

Part Number: RL50-S3CB746/I8 (BLUE)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	4.0	4.5	5.0	V	If=20mA
Peak Wavelength	$\lambda_p$	460	465	470	nm	
Reverse Current	IR			100	$\mu$ A	VR=5V
Power dissipation	Pd		170		mW	
Luminous Intensity	IV	1000	1500	2000	mcd	If=20mA
Peak Forward Current	If(Peak)			100	mA	
Recommend Forward Current	If(Rec)		30		mA	
Blinking frequency	Fblk		2.8		HZ	VDD=5V

### 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