

# EXCEED

# Light-emitting diode



## Specification For Approval

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

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

**Part number:** **RL50-S3CB736/I6**

**Date:** **2005/03/11**

**Approved By:**

**Prepared By:**

Approval	Check	Design	Sales	
		Linda Zhan		

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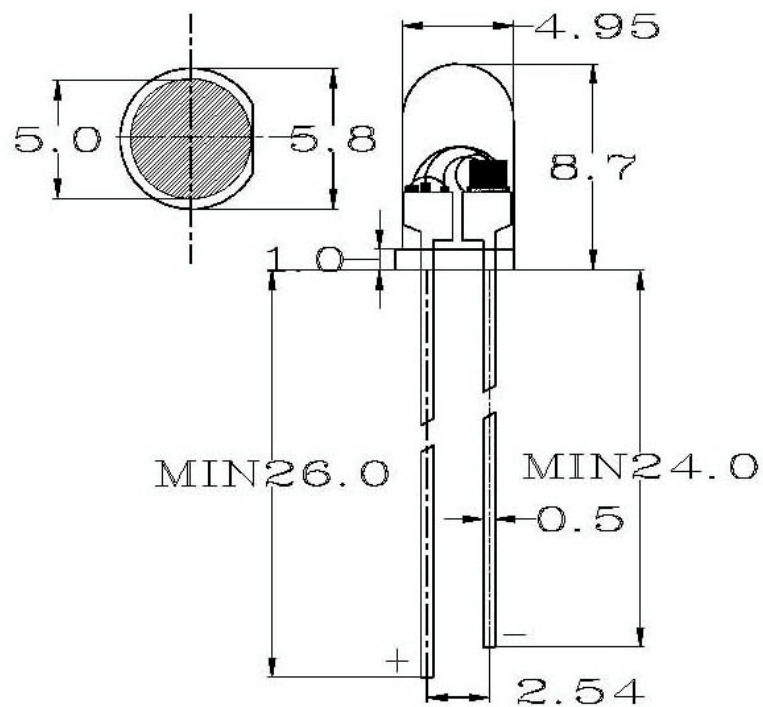
Part Number: RL50-S3CB736/I6

### 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 Gui

NOTE: TOLERANCE  $\pm 0.2$  mm

Part Number	Lens color	Chip		
		Material	Emitted color	$\lambda_p$ (nm)
RL50-S3CB736/I6	Diffuse	GaAlAs/GaAs	RED	645
		InGaN/GaN	BLUE	465

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD.

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## TECHNICAL SPECIFICATION

Part Number: RL50-S3CB736/I6(RED)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	4.0	4.5	5.0	V	If=20mA
Peak Wavelength	$\lambda_p$	640	645	650	nm	
Reverse Current	IR			100	$\mu$ A	VR=5V
Power dissipation	Pd		110		mW	
Luminous Intensity	IV	320	500		mcd	If=20mA
Peak Forward Current	If(Peak)			20	mA	
Recommend Forward Current	If(Rec)		30		mA	
Blinking frequency	Fblk		2.4		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 $\square$ )

4.Operating temperature : -40 $\square$  TO 80 $\square$

5.Lead soldering: 260 $\square$  for 5 seconds

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## TECHNICAL SPECIFICATION

Part Number: RL50-S3CB736/I6 (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	1100	1700		mcd	If=20mA
Peak Forward Current	If(Peak)			100	mA	
Recommend Forward Current	If(Rec)		30		mA	
Blinking frequency	Fblk		2.4		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 $\square$ )

4.Operating temperature : -40 $\square$  TO 80 $\square$

5.Lead soldering: 260 $\square$  for 5 seconds