

EXCEED Light-emitting diode



Specification For Approval

Customer: _____

Description: LED-LAMP

Part number: RL50-S3B7G746/I6-1

Date: 2004/06/02

Approved By:

Prepared By:

Approval	Check	Design	Sales
		Linda Zhan	

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD

www.exceedledcn.com

EXCEED

Light-emitting diode



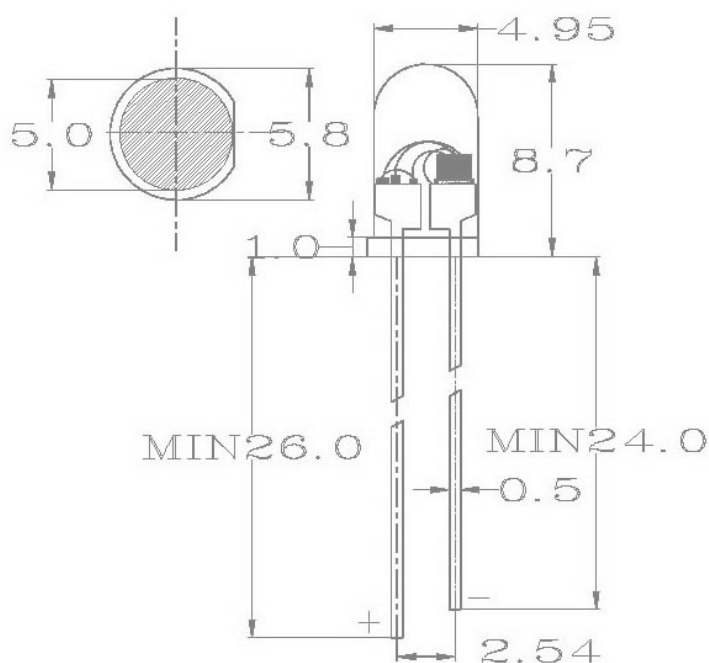
PartNumber: RL50-S3B7G746/I6-1

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 ± 0.2 mm

★ Selection Guide

Part Number	Lens color	Chip		
		Material	Emitted color	λ p (nm)
RL50-S3B7G746 /I6-1	Water	GaAlAs/GaAs	RED	645
	Clear	InGaN/GaN	BLUE	465
		InGaN/GaN	GREEN	520

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TECHNICAL SPECIFICATION

Part Number: RL50-S3B7G746/I6-1(RED)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	4.0	4.5	5.0	V	If=20mA
Peak Wavelength	λ_p	640	645	650	nm	
Reverse Current	IR			40	μ A	VR=5V
Power dissipation	Pd		110		mW	
Luminous Intensity	IV	700	900		mcd	If=20mA
Peak Forward Current	If(Peak)			20	mA	
Recommend Forward Current	If(Rec)		30		mA	
Blinking frequency	Fblk		2.5		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

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TECHNICAL SPECIFICATION

Part Number: RL50-S3B7G746/I6-1(BLUE)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	4.0	4.5	5.0	V	If=20mA
Peak Wavelength	λ_p	460	465	470	nm	
Reverse Current	IR			40	μ A	VR=5V
Power dissipation	Pd		170		mW	
Luminous Intensity	IV	2000	2500		mcd	If=20mA
Peak Forward Current	If(Peak)			100	mA	
Recommend Forward Current	If(Rec)		30		mA	
Blinking frequency	Fblk		2.5		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

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TECHNICAL SPECIFICATION

Part Number: RL50-S3B7G746/I6-1(PURE GREEN)

Parameter	Symbol	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	VF	4.0	4.5	5.0	V	If=20mA
Peak Wavelength	λ_p	515	520	525	nm	
Reverse Current	IR			40	μ A	VR=5V
Power dissipation	Pd		170		mW	
Luminous Intensity	IV	2000	2500		mcd	If=20mA
Peak Forward Current	If(Peak)			100	mA	
Recommend Forward Current	If(Rec)		30		mA	
Blinking frequency	Fblk		2.5		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