Kingbright



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

L-13QBD-D

2mm FLAT TOP LED LAMP

BLUE

PRELIMINARY SPEC

Features

•MOUNTS FLUSH WITH PANEL. •LOW POWER CONSUMPTION. •SUITABLE FOR AUDIO PANEL INDICATOR. •FITS 2mm HOLE IN PANEL UP TO 3.5mm (.138"). •LONG LIFE - SOLID STATE RELIABILITY. •RoHS COMPLIANT.

Description

The Blue source color devices are made with GaN on Sapphire Light Emitting Diode. Static electricity and surge damage the LEDS. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices, equipment and machinery must be electrically grounded.

Package Dimensions



3. Lead spacing is measured where the leads emerge from the package.

4. Specifications are subject to change without notice.

Notes:

REV NO: V.1 CHECKED: Allen Liu

DATE: DEC/24/2004 **DRAWN: Y.CHENG**

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Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle				
			Min.	Тур.	2 0 1/2				
L-13QBD-D	BLUE (GaN)	BLUE DIFFUSED	70	200	70 °				

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	IF=20mA
λD	Dominant Wavelength	Blue	470		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF	Forward Voltage	Blue	3.5	4.0	V	IF=20mA
IR	Reverse Current	Blue		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units		
Power dissipation	105	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

3. 5mm below package base.

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