

T-1 3/4 (5mm) SOLID STATE LAMP

PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Part Number: L-53QBC-F

Blue

Features

- Low power consumption.
- Popular T-1 3/4 diameter package.
- General purpose leads.
- Reliable and rugged.
- Long life solid state reliability.
- Available on tape and reel.
- RoHS compliant.

Description

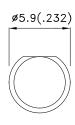
The Blue source color devices are made with InGaN on Al₂O₃ substrate Light Emitting Diode.

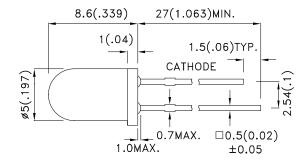
Static electricity and surge damage the LEDS.

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





- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.4. Specifications are subject to change without notice.





SPEC NO: DSAJ8847 **REV NO: V.1** DATE: OCT/09/2009 PAGE: 1 OF 4

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
L-53QBC-F	Blue (InGaN)	WATER CLEAR	1500	3300	30°

- 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	461		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	465		nm	I=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	4	V	IF=20mA
lR	Reverse Current	Blue		10	uA	VR = 5V

- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

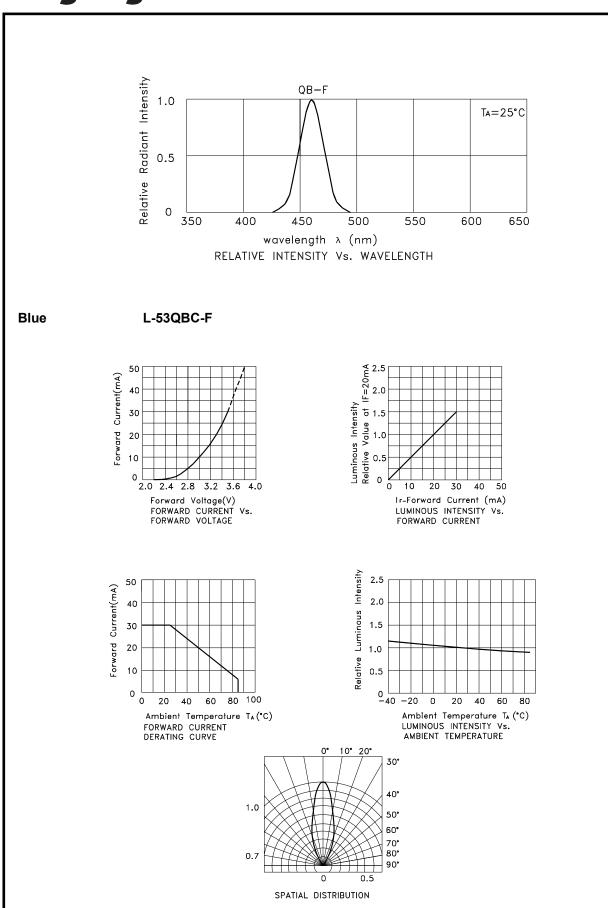
Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units	
Power dissipation	120	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		

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.
 3. 5mm below package base.

SPEC NO: DSAJ8847 **REV NO: V.1** DATE: OCT/09/2009 PAGE: 2 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: J.Yu

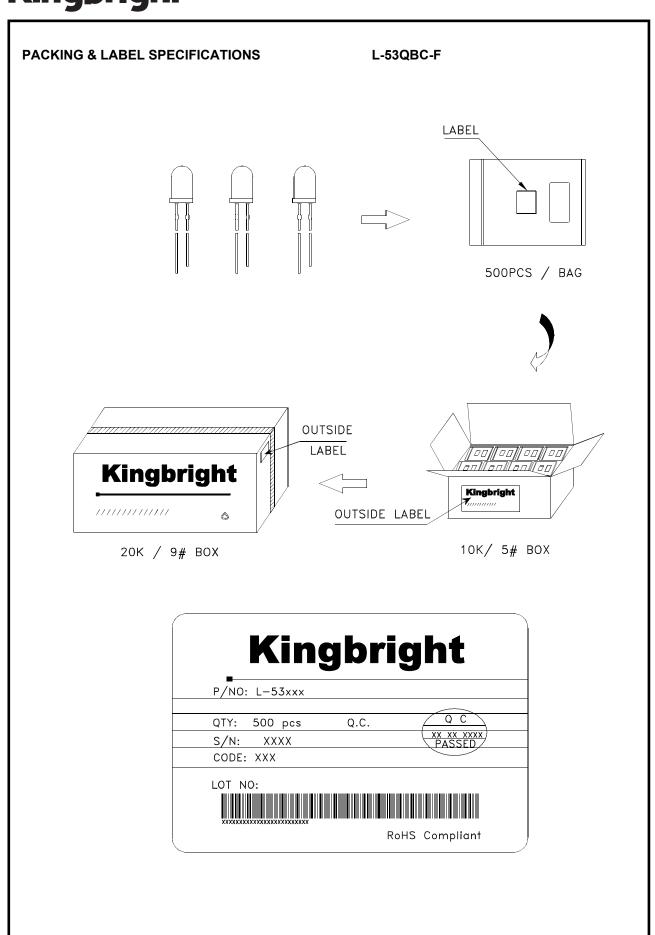
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SPEC NO: DSAJ8847 REV NO: V.1 DATE: OCT/09/2009 PAGE: 3 OF 4

APPROVED: WYNEC CHECKED: Allen Liu DRAWN: J.Yu

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SPEC NO: DSAJ8847 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: OCT/09/2009 DRAWN: J.Yu PAGE: 4 OF 4