

PRELIMINARY SPEC

Part Number: L-816BQBDL-D

Blue



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- 10mm diameter big lamp with built-in blinking IC.
- Operation voltage from 3.5V to 14V.
- Blinking frequency from 3.0Hz to 1.5Hz.
- RoHS compliant.

Description

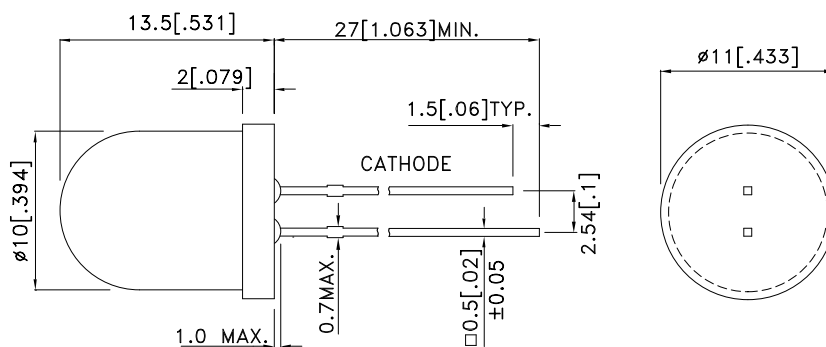
The Blue source color devices are made with InGaN Light Emitting Diode.

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



Notes:

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



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) V= 9V		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-816QBBDL-D	Blue (InGaN)	BLUE DIFFUSED	110	380	30°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Electrical / Optical Characteristics at TA=25°C

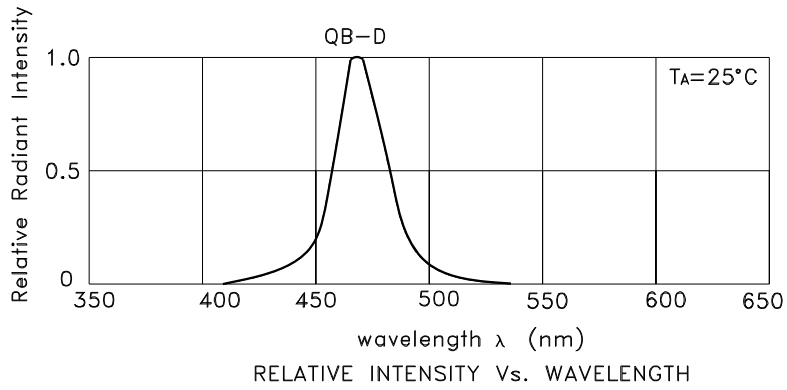
Symbol	Parameter	Device	Min.	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue		468		nm	
λD	Dominant Wavelength	Blue		470		nm	
Δλ1/2	Spectral Line Half-width	Blue		25		nm	
IF	Forward Current	Blue	4	15		mA	Min:VF=3.5V Typ:VF=5V
ISON	Supply Current	Blue		4		mA	VF=3.5V
ISON	Supply Current	Blue		41		mA	VF=14V
f	Blink Frequency	Blue	1.5		3	Hz	VF=3.5V~14V

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units
Power dissipation	310	mW
Forward Voltage	14	V
Reverse Voltage	0.5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [1]	260°C For 3 Seconds	
Lead Solder Temperature [2]	260°C For 5 Seconds	

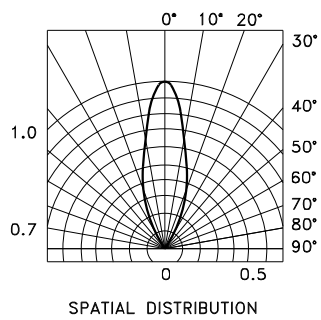
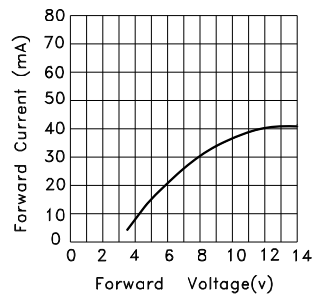
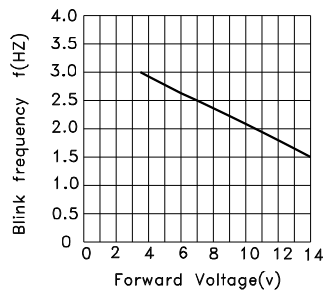
Notes:

- 2mm below package base.
- 5mm below package base.



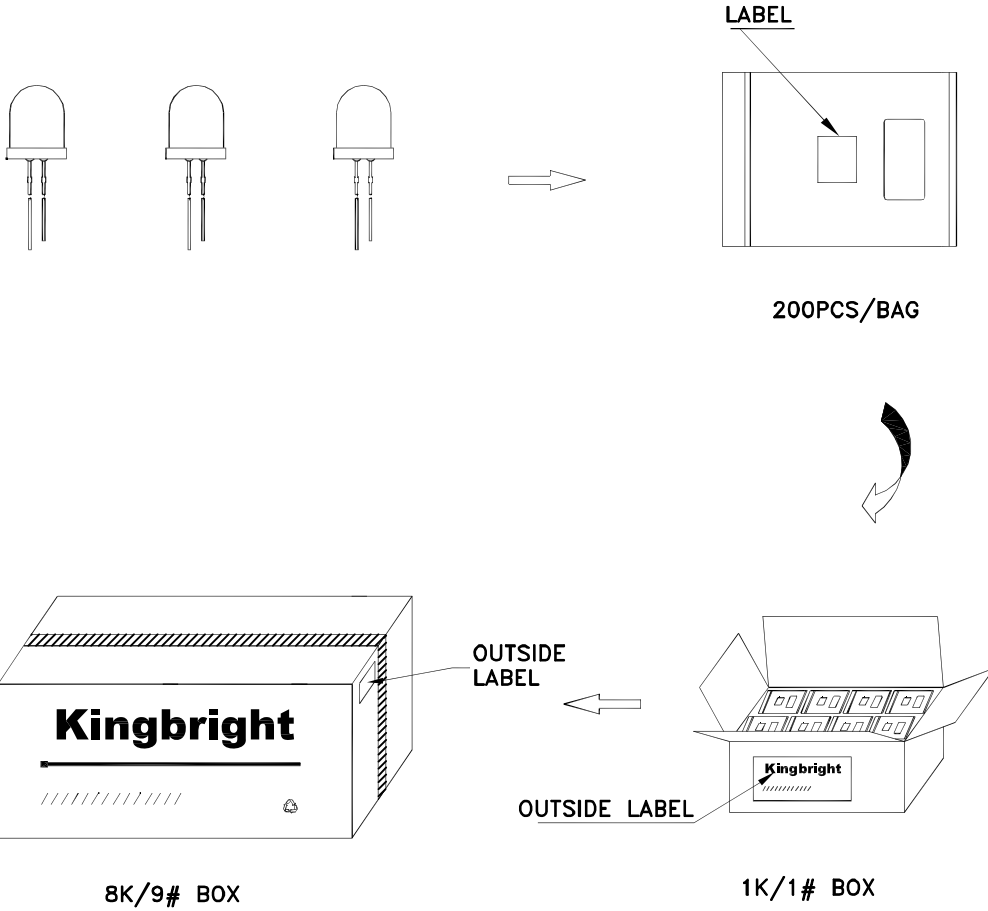
Blue

L-816QBBDL-D



PACKING & LABEL SPECIFICATIONS

L-816QBDL-D



<h2 style="margin: 0;">Kingbright</h2>	
P/NO: L-816Bxxx	
QTY: 200 pcs	Q.C.
S/N: XXXX	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> Q C xx xx xxxx PASSED </div>
CODE: XXX	
LOT NO:	
RoHS Compliant	