

PRELIMINARY SPEC

Part Number: L-56BQBDL-D

Blue



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- T-1 3/4 package.
- With built-in blinking IC.
- Operation voltage from 3.5V to 14V.
- Blinking frequency from 3.0Hz to 1.5Hz.
- RoHS compliant.

Description

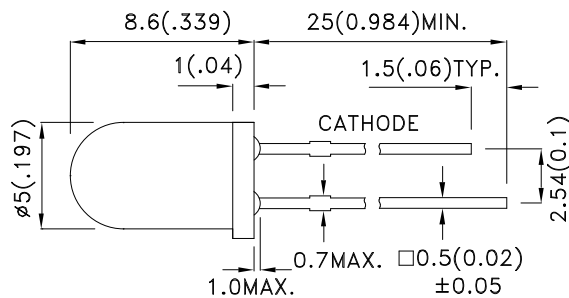
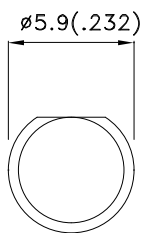
The Blue source color devices are made with InGaN Light Emitting Diode.

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 $\pm 0.25(0.01)$ unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) V= 9V		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-56QBBDL-D	Blue (InGaN)	BLUE DIFFUSED	180	500	60°

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

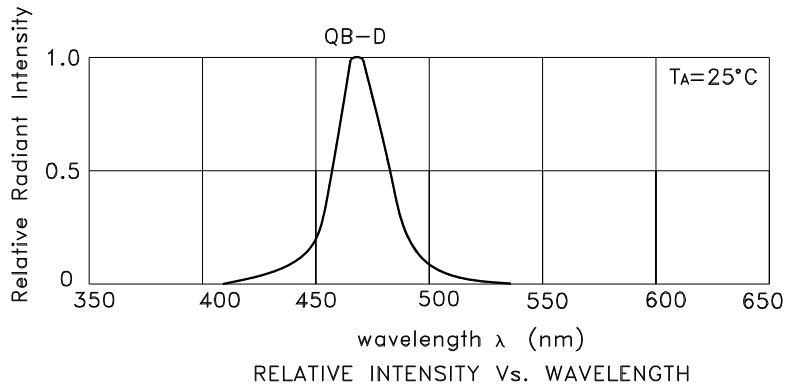
Symbol	Parameter	Device	Min.	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Blue		468		nm	
λ_D	Dominant Wavelength	Blue		470		nm	
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Blue		25		nm	
I_F	Forward Current	Blue	4	15		mA	Min:V _F =3.5V Typ:V _F =5V
I _{SON}	Supply Current	Blue		4		mA	V _F =3.5V
I _{SON}	Supply Current	Blue		41		mA	V _F =14V
f	Blink Frequency	Blue	1.5		3	Hz	V _F =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	

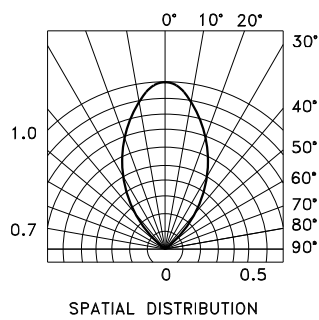
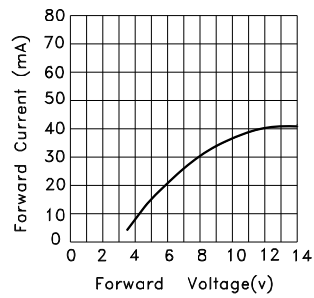
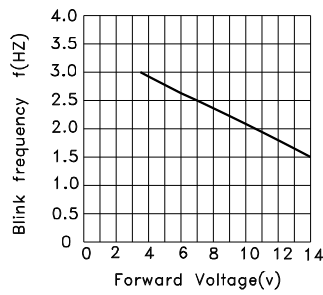
Notes:

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



Blue

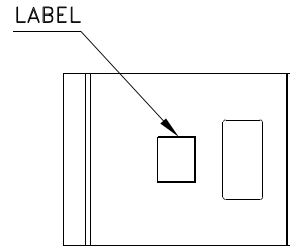
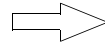
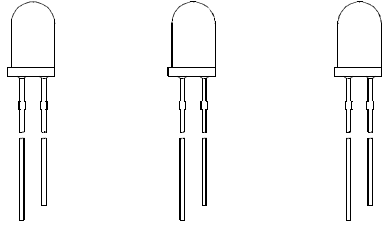
L-56BQBDL-D



Kingbright

PACKING & LABEL SPECIFICATIONS

L-56BQBDL-D

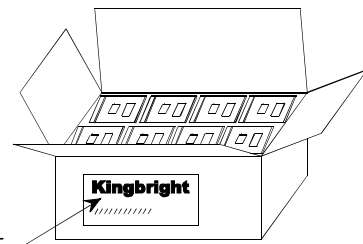
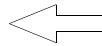


500PCS / BAG




20K / 9# BOX

OUTSIDE LABEL



10K / 5# BOX

OUTSIDE LABEL

<h1>Kingbright</h1>	
P/N0: L-56Bxxx	
QTY: 500 pcs	Q.C. XX XX XX
S/N: XXXX	PASSED
CODE: XXX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	