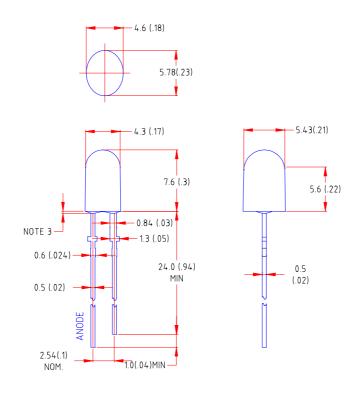


Features

- ♦ High intensity
- ♦ 5*4mm diameter ellipse package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:

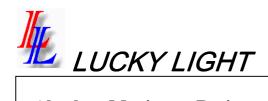


Part NO.	Lens Color	Source Color		
LL-543BT1Q-009	Blue Transparent	Super Bright Blue		

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(.010)$ mm unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.
- 6. Caution in ESD:
 Siatic Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit		
Power Dissipation	100	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA		
Continuous Forward Current	35	mA		
Derating Linear From 50℃	0.4	mA/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-40°C to +80°C			
Storage Temperature Range	-40°C to +80°C			
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds			

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol		Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv			250		mcd	I _F =20mA (Note 1)	
Viewing Angle	2θ	X(Axis)		21		Deg	(Note 2)	
	1/2	Y(Axis)		72		Deg		
Peak Emission Wavelength	λp			452		Nm	$I_{\text{F}}{=}20\text{mA}$	
Dominant Wavelength	λd			474		Nm	I _F =20mA (Note 3)	
Spectral Line Half-Width	Δλ			66		Nm	$I_{\text{F}}{=}20\text{mA}$	
Forward Voltage	V_{F}			3. 55	4. 50	V	$I_{\text{F}}{=}20\text{mA}$	
Reverse Current		I_R			100	μA	$V_R=5V$	

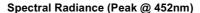
Note:

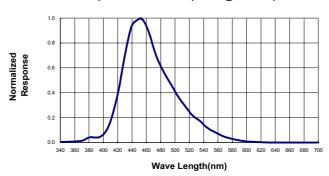
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

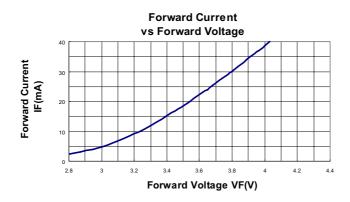
Part No.	LL-543BT1Q-009	Spec No.	S/N-01042612S	Page	3 of 4
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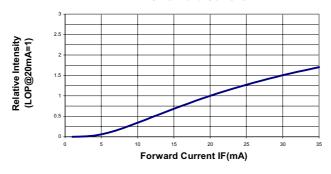
Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

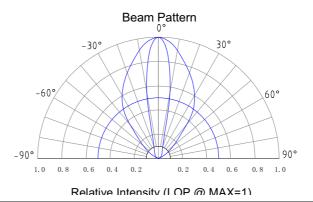






Relative Luminous Intensity vs Forward Current





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