LL-509VBC2E-002

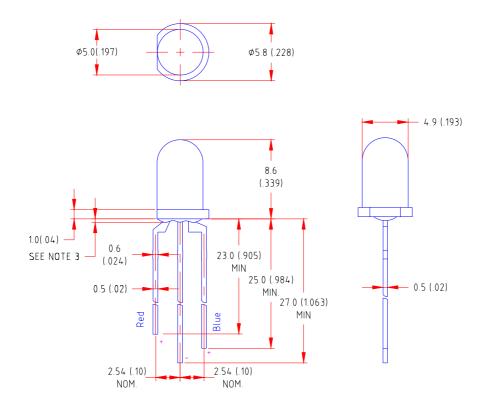
DATA SHEET

QC: ENG: Prepared By:

Features

- ♦ Standard T-1 3/4 package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color		
LL-509VBC2E-002	Water Clear	Red & Blue		

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±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

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	20	mA	
Derating Linear From 50	0.4	mA/	
Reverse Voltage	5	V	
Operating Temperature Range	-40 to +80		
Storage Temperature Range	-40 to +80		
Lead Soldering Temperature [4mm(.157") From Body]	260 for 5 Seconds		

Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Emitting Color	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	١٧	Blue		500		mcd	I⊧=20mA Note 1	
		Red		800		IIIOG		
Viewing Angle	2 1/2	Blue		30		Deg	Note 2	
		Red	-	30		b	Note 2	
Peak Emission Wavelength	n	Blue		468		nm	I⊧=20mA	
	р	Red		630		11111		
Dominant Wavelength	d	Blue	465	470	475	nm	I=20mA	
		Red	615	620	625		Note 3	
Spectral Line Half-Width		Blue		26			I=20mA	
		Red		25		nm		
Forward Voltage	V _F	Blue	2.8	3.60	4.50	V	I=20mA	
		Red	1.8	2.05	2.50	V		
Reverse Current	I _R	Blue			100	μА	V _R =5V	
		Red						

Note:

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

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Typical Electrical / Optical Characteristics Curves (25 Ambient Temperature Unless Otherwise Noted)

