

Preliminary

LL-503VM2E-011

DATA SHEET

QC: ENG: Prepared By:

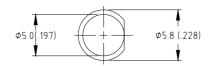
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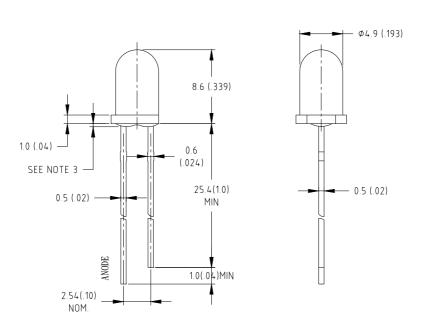


Features:

- ♦ High intensity
- ♦ Standard T-1 3/4 diameter package
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimensions:





Part NO. Chip Material		Lens Color	Source Color	
LL-503VM2E-011	AlGaInP	White Diffused	Super Bright Red	

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm (.010") 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.** This data-sheet only valid for six months.

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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°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	1500	3000	6000	mcd	I _f =20mA (Note 1)	
Viewing Angle	2 heta 1/2	25	30	35	Deg	(Note 2)	
Peak Emission Wavelength	λp	630	635	640	nm	I _f =20mA	
Dominant Wavelength	λd	625	630	635	nm	I _f =20mA (Note 3)	
Spectral Line Half-Width	Δλ	15	20	25	nm	I _f =20mA	
Forward Voltage	V_{f}	1.8	2. 2	2. 7	V	I _f =20mA	
Reverse Current	IR			100	μA	V _R =5V	

Notes:

- 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.

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