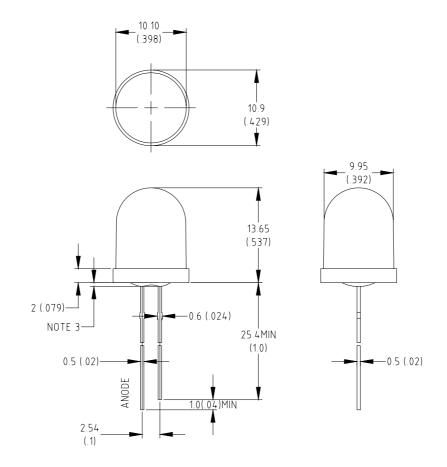


Features:

- High intensity
- 10mm diameter package
- General purpose leads
- Reliable and rugged

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
LL-1003VD2D-007	AlGaInP	Red 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.

Part No. LL-100	03VD2D-007 Spec No	S/N-02121303D	Page	2 of 4
-----------------	--------------------	---------------	------	--------

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

Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	l v	700	1500	3000	mcd	I:=20mA (Note 1)
Viewing Angle	2 1/2	25	30	35	Deg	(Note 2)
Peak Emission Wavelength	р	630	635	640	nm	Ir=20mA
Dominant Wavelength	d	625	630	635	nm	I:=20mA (Note 3)
Spectral Line Half-Width		15	20	25	nm	Ir=20mA
Forward Voltage	V _f	1.8	2.2	2.7	V	Ir=20mA
Reverse Current	R			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. 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.

 Part No.
 LL-1003VD2D-007
 Spec No.
 S/N-02121303D
 Page
 3 of 4

