LL-803UM2C-001

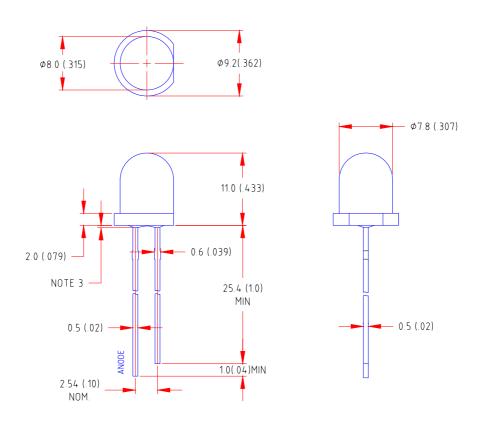
DATA SHEET

QC: ENG: Prepared By:

Features

- ♦ High intensity
- ♦ Normal 8mm diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color
LL-803UM2C-001	White Diffused	Ultra Red

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

Part No.	LL-803UM2C-001	Spec No.	S/N-01081801D	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	40	mA		
Derating Linear From 50	0.4	mA/		
Reverse Voltage	5	٧		
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

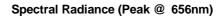
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	310	700	1200	mcd	I=20mA (Note 1)	
Viewing Angle	2 1/2	31	37	43	Deg	(Note 2)	
Peak Emission Wavelength	р	651	656	661	nm	I=20mA	
Dominant Wavelength	d	635	640	645	nm	I=20mA (Note 3)	
Spectral Line Half-Width		18	23	28	nm	I==20mA	
Forward Voltage	V _F	1.6	2.0	2.6	V	I=20mA	
Reverse Current	I R			100	μΑ	V _R =5V	

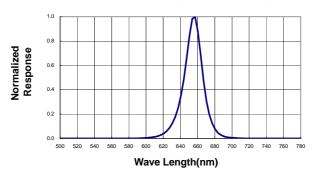
Note:

- 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.

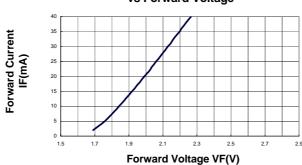
Part No.	LL-803UM2C-001	Spec No.	S/N-01081801D	Page	3 of 4
----------	----------------	----------	---------------	------	---------------

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





Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current

