



# DATA SHEET

QC:

ENG:

Prepared By:

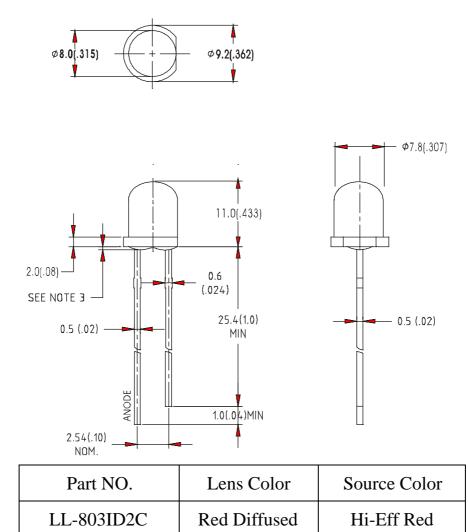
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### Features

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

## **Package Dimension:**



#### 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

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#### Absolute Maximum Ratings at Ta=25°C

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°C	0.4	mA/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-40°C to +80°C	-40°C to +80°C		
Storage Temperature Range	-40°C to +80°C	-40°C to +80°C		
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seco	$260^{\circ}$ C for 5 Seconds		

#### **Electrical Optical Characteristics at Ta=25°**C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	100	150		mcd	I <sub>F</sub> =20mA (Note 1)	
Viewing Angle	2 heta 1/2		50		Deg	(Note 2)	
Peak Emission Wavelength	λp		630		nm	I <sub>F</sub> =20mA	
Dominant Wavelength	λd		631		nm	I <sub>F</sub> =20mA (Note 3)	
Spectral Line Half-Width	$ riangle \lambda$		42		nm	I <sub>F</sub> =20mA	
Forward Voltage	$V_{\rm F}$		2.0	2.8	V	I <sub>F</sub> =20mA	
Reverse Current	I <sub>R</sub>			100	μA	V <sub>R</sub> =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 ( $\lambda$  d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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