

LL-803YC2C-008

DATA SHEET

QC :

ENG :

Prepared By:

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 | |
| Lead Soldering Temperature [4mm(.157") From Body] | 260 for 5 Seconds | |

Electrical Optical Characteristics at Ta=25

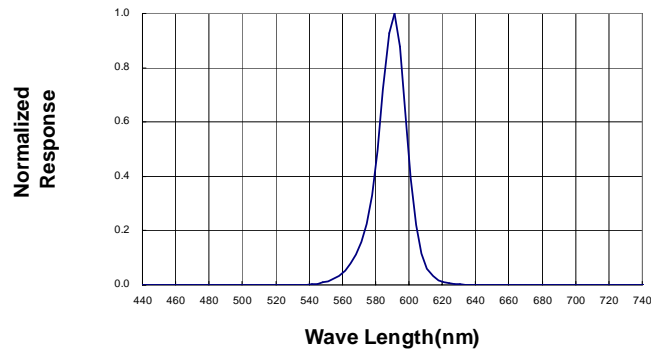
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-----------|------|------|-------|---------------|----------------------------|
| Luminous Intensity | I_v | 3500 | 7000 | 14000 | mcd | $I_f=20\text{mA}$ (Note 1) |
| Viewing Angle | $2_{1/2}$ | 15 | 20 | 25 | Deg | (Note 2) |
| Peak Emission Wavelength | ρ | 585 | 590 | 595 | nm | $I_f=20\text{mA}$ |
| Dominant Wavelength | d | 585 | 590 | 595 | nm | $I_f=20\text{mA}$ (Note 3) |
| Spectral Line Half-Width | | 15 | 20 | 25 | nm | $I_f=20\text{mA}$ |
| Forward Voltage | V_f | 1.8 | 2.25 | 2.8 | V | $I_f=20\text{mA}$ |
| Reverse Current | I_R | --- | --- | 100 | μA | $V_R=5\text{V}$ |

Notes:

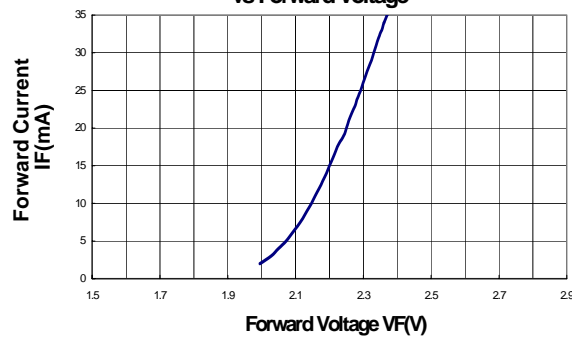
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (d) is derived from the CIE chromaticity diagram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

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

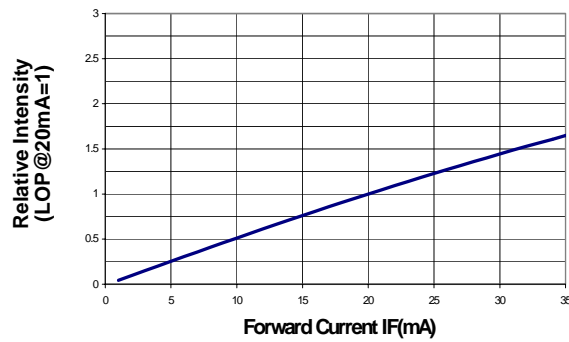
Spectral Radiance (Peak @ 590nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern

