

LL-803YC2C-007

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

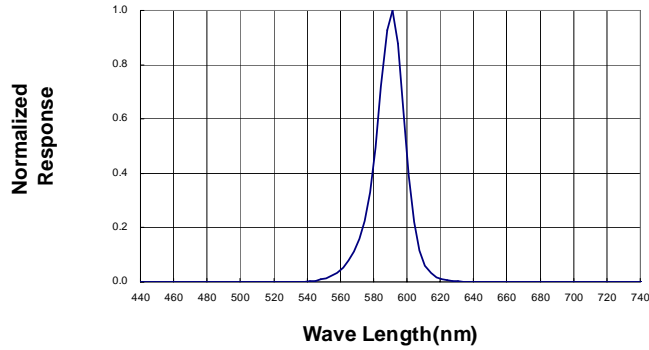
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	3500	8000	16000	mcd	I _F =20mA (Note 1)
Viewing Angle	2 _{1/2}	15	20	25	Deg	(Note 2)
Peak Emission Wavelength	λ _p	585	590	595	nm	I _F =20mA
Dominant Wavelength	λ _d	585	590	595	nm	I _F =20mA (Note 3)
Spectral Line Half-Width		15	20	25	nm	I _F =20mA
Forward Voltage	V _F	1.8	2.25	2.8	V	I _F =20mA
Reverse Current	I _R	---	---	100	μA	V _R =5V

Note:

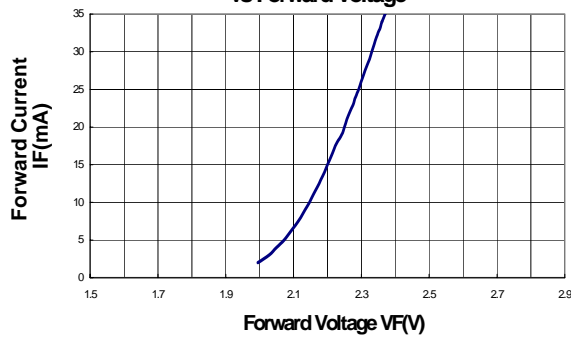
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. _{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram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

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

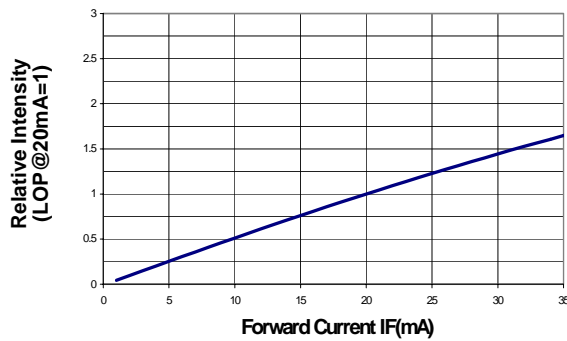
Spectral Radiance (Peak @ 590nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern

