

Preliminary

LL-253SC2F-001

DATA SHEET

QC :

ENG :

Prepared By:

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Version:1.0

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	15	30	60	mcd	I _F =20mA (Note 1)
Viewing Angle	2 _{1/2}	105	115	125	Deg	(Note 2)
Peak Emission Wavelength	λ _p	655	660	665	nm	I _F =20mA
Dominant Wavelength	λ _d	635	640	645	nm	I _F =20mA (Note 3)
Spectral Line Half-Width		20	25	30	nm	I _F =20mA
Forward Voltage	V _F	1.5	1.85	2.4	V	I _F =20mA
Reverse Current	I _R	---	---	100	μA	V _R =5V

Note:

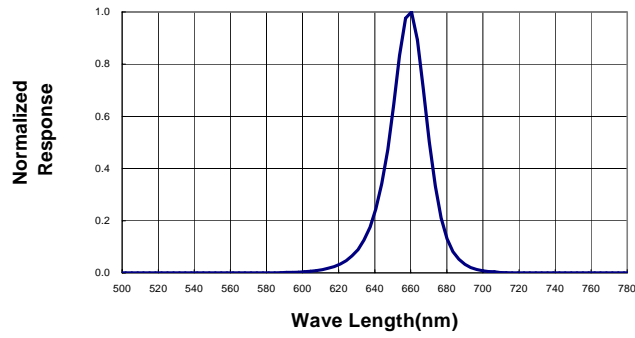
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. _{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram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

Typical Electrical / Optical Characteristics Curves

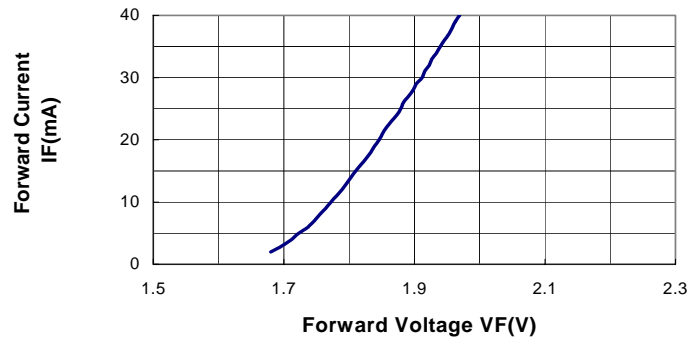
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(25 Ambient Temperature Unless Otherwise Noted) V

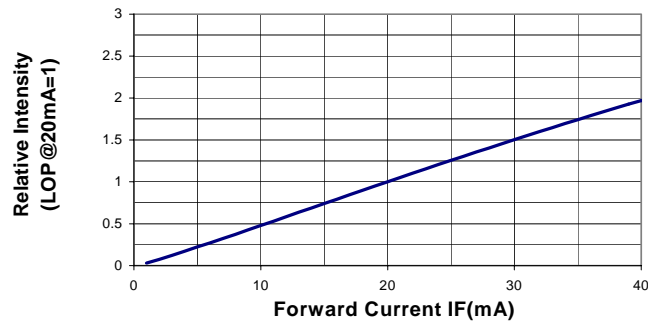
Spectral Radiance (Peak @ 660nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern

