

L200-0AG-15D

Aqua Green

5mm, Flanged Cylindrical, 8.6mm Height

16° viewing angle

64 lumens per Watt

($I_f = 20\text{mA}$, $T_a = 25^\circ\text{C}$)

DWG BY:
LL / JAG
05-11-06

CHK BY:
PL
10-27-06

QA:
__-__-06

MFG:
__-__-__

REVISION LTR :-
10-25-06

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Electrostatic Discharge (ESD)	150	V
Operating Temperature Range	-30°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature [4mm (.157") From Body]	260°C for 5 Seconds	

Electrical Optical Characteristics at Ta=25°C

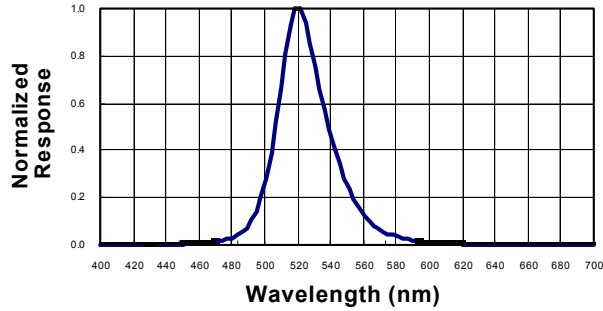
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _V	11000	24000	---	mcd	I _F =20mA (Note 1)
Viewing Angle	2θ _{1/2}	13	16	20	Deg	(Note 2)
Peak Emission Wavelength	λ _p	---	518	---	nm	I _F =20mA
Dominant Wavelength	λ _d	523	525	529	nm	I _F =20mA (Note 3)
Spectral Line Half-Width	Δλ	---	32	---	nm	I _F =20mA
Forward Voltage	V _F	---	3.1	4.0	V	I _F =20mA
Reverse Current	I _R	---	---	50	μA	V _R =5V
SCP	---	---	0.32	---	cd	I _F =20mA
Lumens	---	---	4.1	---	lm	I _F =20mA
Radiant Intensity	---	---	50	---	mW/sr	I _F =20mA
Chromaticity Coordinates	x: 0.16 y: 0.72					I _F =20mA

Notes:

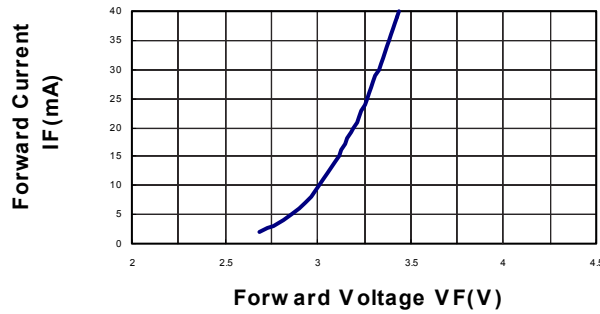
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- Forward voltage measurement allowance is ±0.1V
- Luminous Intensity Measurement Allowance is ± 10%.

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

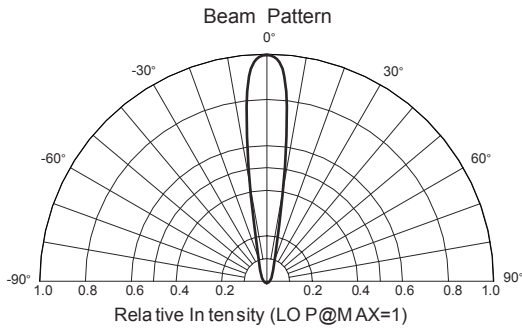
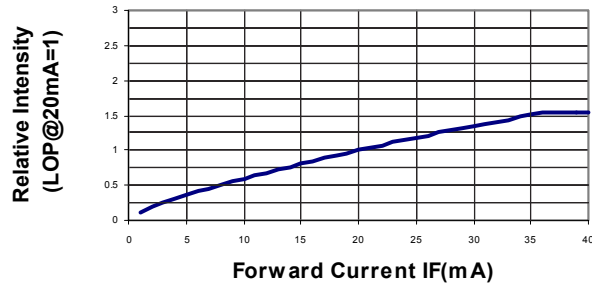
Spectral Radiance (Peak @ 520 nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Forward Current Derating Curve

