

Preliminary

LL-U26RGBM-001

DATA SHEET

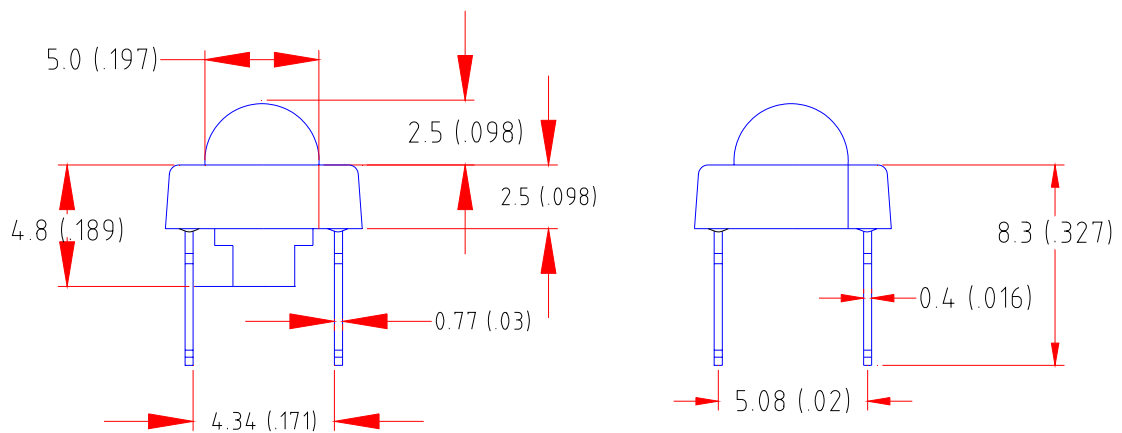
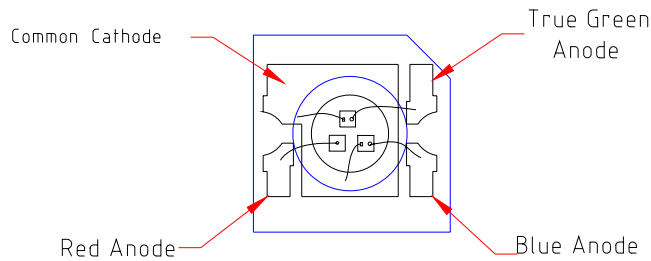
QC :

ENG :

Prepared By:

Part No.	LL-U26RGBM-001	Spec No.	S/N-02102148S	Page	5 of 1
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Package Dimensions:



Part NO.	Chip Material			Lens Color	Source Color
	Red	True Green	Blue		
LL-U26RGBM-001	AlGaInP	InGaN	InGaN	White Diffused	Red & True Green & Blue

Notes:

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm} (.010'')$ unless otherwise noted.
- Protruded resin under flange is $1.0\text{mm} (.04'')$ max
- Lead spacing is measured where the leads emerge from the package.
- Specifications are subject to change without notice
- Precautions for ESD:
 STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
- This data-sheet only valid for six months.

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.		Unit
Power Dissipation	Red	90	mW
	True Green	115	
	Blue	115	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100		mA
Continuous Forward Current	Red	35	mA
	True Green	30	
	Blue	30	
Derating Linear From 50°C	0.4		mA/°C
Reverse Voltage	5		V
Operating Temperature Range	-40°C to +80°C		
Storage Temperature Range	-40°C to +80°C		
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds		

Electrical Optical Characteristics at Ta=25°C

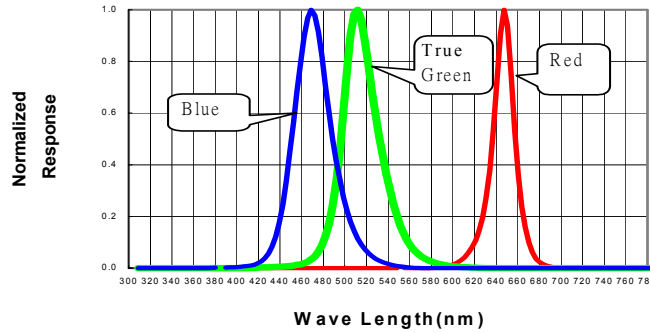
Parameter	Symbol	Emitting Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	Red	120	250	500	mcd	I _f =20mA Note 1
		True Green	300	690	1200		
		Blue	100	210	460		
Viewing Angle	2θ _{1/2}	Red	65	72	80	Deg	Note 2
		True Green	70	80	90		
		Blue	65	72	80		
Peak Emission Wavelength	λ _p	Red	640	645	650	nm	Measurement @Peak
		True Green	520	525	530		
		Blue	463	468	473		
Dominant Wavelength	λ _d	Red	625	630	635	nm	Note 3
		True Green	522	528	535		
		Blue	460	468	476		
Spectral Line Half-Width	Δλ	Red	15	20	25	nm	
		True Green	35	40	45		
		Blue	20	25	30		
Forward Voltage	V _F	Red	1.6	2.0	2.5	V	I _f =20mA
		True Green	2.8	3.2	4.0		
		Blue	2.8	3.5	4.0		
Reverse Current	I _R	Red	---	---	100	μA	V _R =5V
		True Green					
		Blue					

Notes:

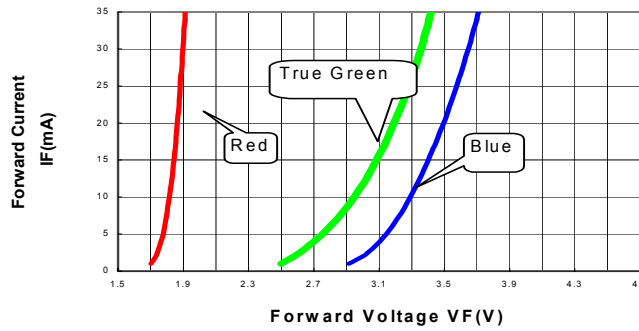
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram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

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

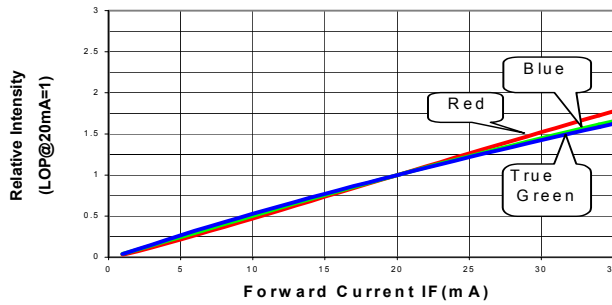
Spectral Radiance True Green Peak @ 525nm
Red Peak @ 645nm
Blue Peak @ 468nm



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern

