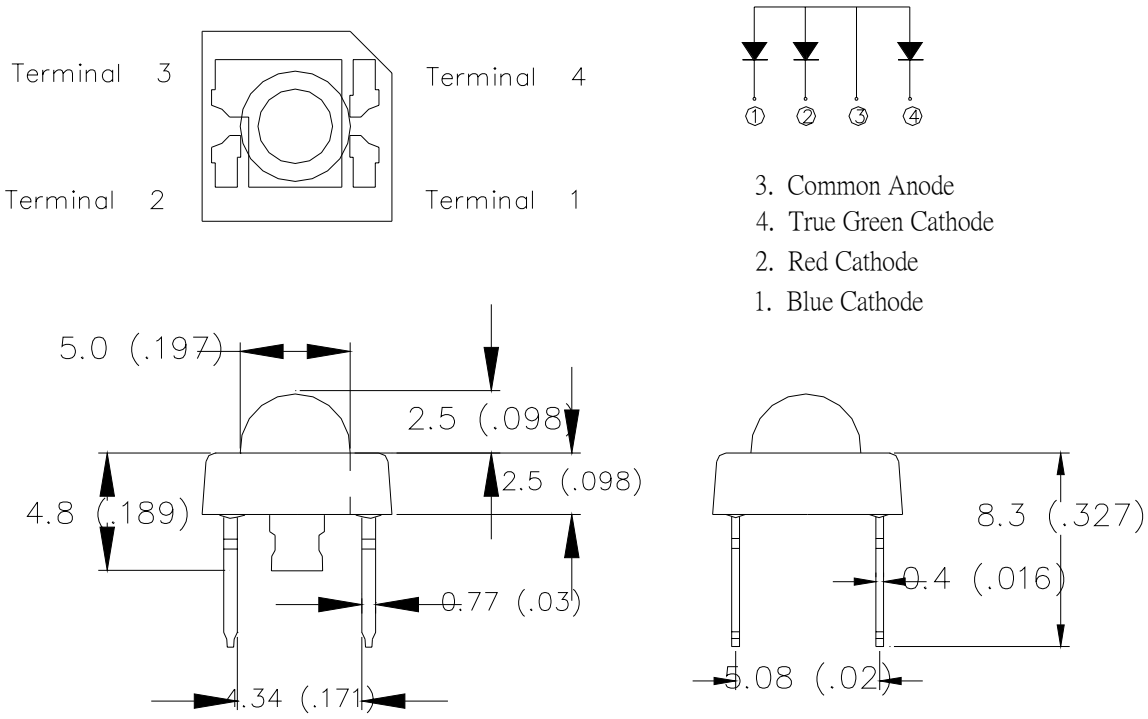
Preliminary

LL-U26RGBC-019

DATA SHEET

QC: ENG: Prepared By:

Package Dimensions:



Part NO.	Chip Material			Lens Color	Source Color
LL-U26RGBC-019	Red	True Green	Blue	Water Clear	Red & True Green & Blue
	AlGaInP	InGaN	InGaN		

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (.010”) unless otherwise noted.
3. Protruded resin under flange is 1.0mm (.04”) max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.
6. Precautions for ESD:
   Static electricity and surge can 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.
7. This data-sheet only valid for six months.

Absolute Maximum Ratings at Ta=25℃

Parameter	Emitting Color	MAX.	Unit
Power Dissipation	Red	90	mW
	Green	120	
	Blue	120	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)		100	mA
Continuous Forward Current	Red	35	mA
	Green	30	
	Blue	30	
Derating Linear From 50℃	0.4		mA/℃
Reverse Voltage	5		V
Operating Temperature Range	-30℃ to +80℃		
Storage Temperature Range	-40℃ to +100℃		
Lead Soldering Temperature [4mm(.157") From Body]	260℃ for 5 Seconds		

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Emitting Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	Red	530	1200	---	mcd	I_f=20mA Note 1
		True Green	460	1000	---		
		Blue	63	140	---		
Viewing Angle	$2\theta_{1/2}$	Red	70	80	90	Deg	Note 2
		True Green	70	80	90		
		Blue	70	80	90		
Peak Emission Wavelength	λp	Red	630	635	640	nm	Measurement @Peak
		True Green	520	525	530		
		Blue	463	468	473		
Dominant Wavelength	λd	Red	620	625	630	nm	Note 3
		True Green	520	530	540		
		Blue	460	470	480		
Spectral Line Half-Width	△λ	Red	15	20	25	nm	
		True Green	30	35	40		
		Blue	30	35	40		
Forward Voltage	V_F	Red	1.8	2.1	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. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λd) 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)