



5F, No.371-1, Sec.2, Chung shan Road, Chung Ho, Taipei county Taiwan

TEL : 886-2-82277070

FAX : 886-2-82277171

E-mail : lightop@anet.net.tw

光 楠 科 技 股 份 有 限 公 司
LIGHTOP TECHNOLOGY CO., LTD.

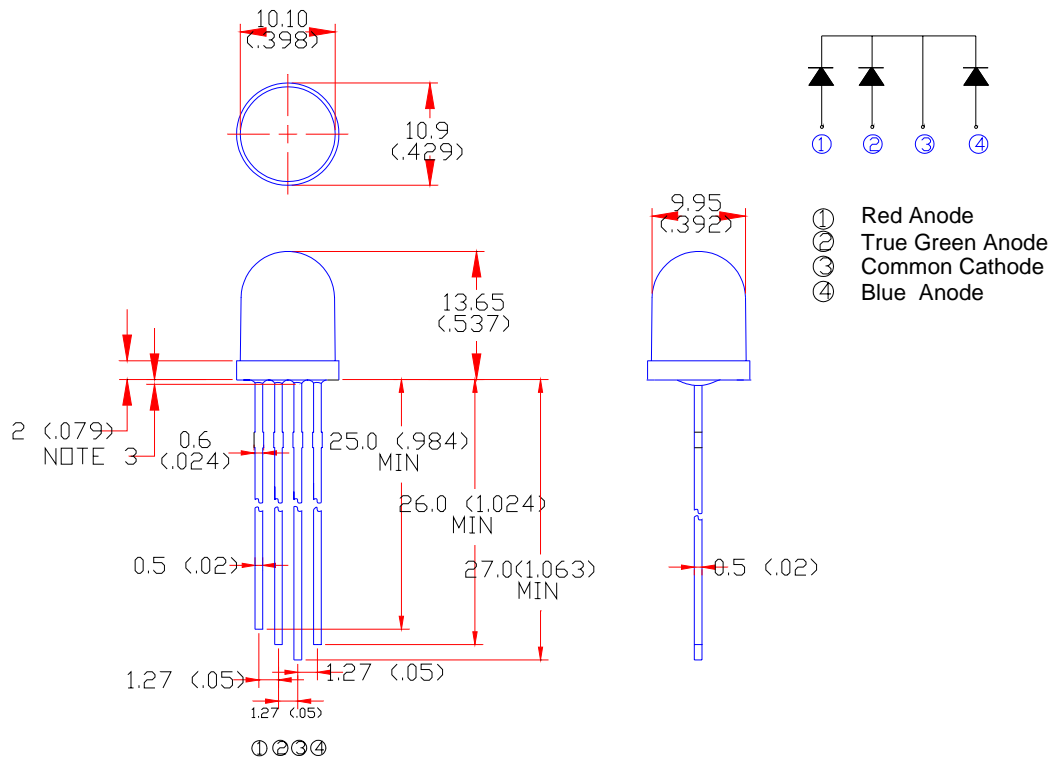
Data Sheet

REVISION	01
ISSUE DATE	2013/01/25
APPROVAL BY	JASON
PREPARED BY	LUOFAXING

Features:

1. Low power consumption.
2. High intensity
3. Extremely wide view angle
4. Chip Material: AlGaInP, InGaN, InGaN
5. Lens Color: White diffused
6. Source Color: RED, GREEN, BLUE

Outline Dimensions:



Note :

1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.25\text{mm}$ ($0.010''$) 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 notices.

Absolute Maximum Ratings at Ta=25°C:

Parameter	Maximum			Unit
	RED	GREEN	BLUE	
Power Dissipation	84	80	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	100	100	mA
Continuous Forward Current	35	20	20	mA
Reverse Voltage	5			V
Operating Temperature Range	-20°C to +80°C			
Storage Temperature Range	-30°C to +85°C			
Lead Soldering Temperature [1.6mm(0.63") from body]	260°C for 3 Seconds			

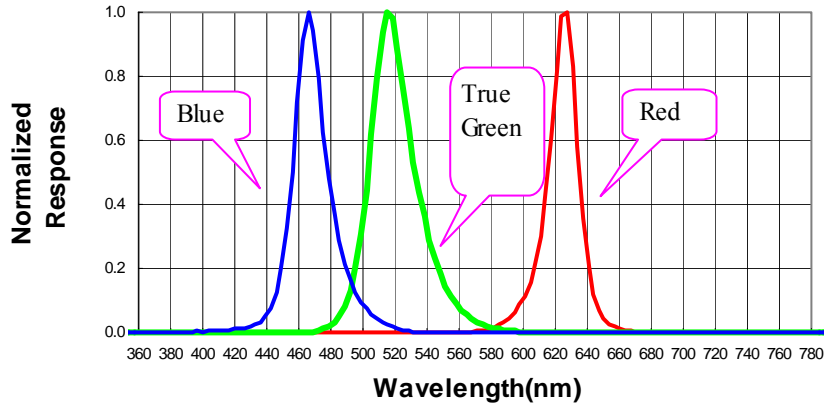
Electrical/Optical Characteristics at Ta=25°C:

Parameter	Symbol	Test Condition	RED	GREEN	BLUE	Unit
			Typ.	Typ.	Typ.	
Luminous Intensity	I _v	I _F =20mA	350	1300	350	mcd
Dominant Wavelength	λ _d	I _F =20mA	625	523	470	nm
Viewing Angle	2θ 1/2	I _F =20mA	80	90	100	deg
Forward Voltage	V _F	I _F =20mA	2.0	3.3	3.2	V
Reverse Current	I _R	V _R =5V	10			uA

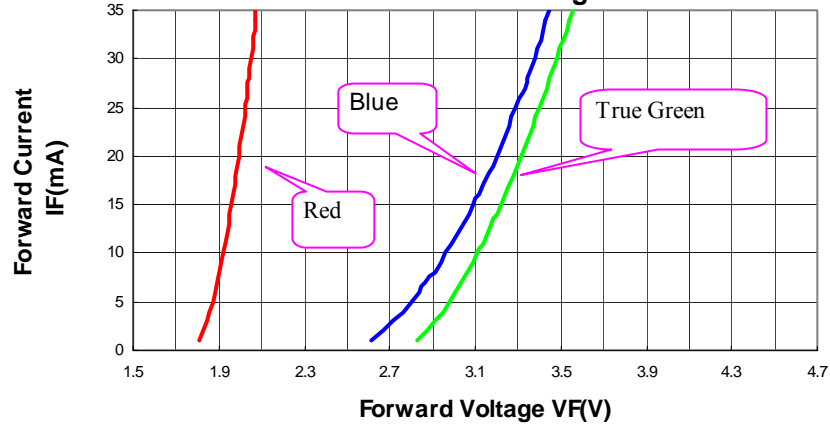
Typical Electrical/Optical Characteristics Curve:

(25°C Ambient Temperature Unless Otherwise Noted)

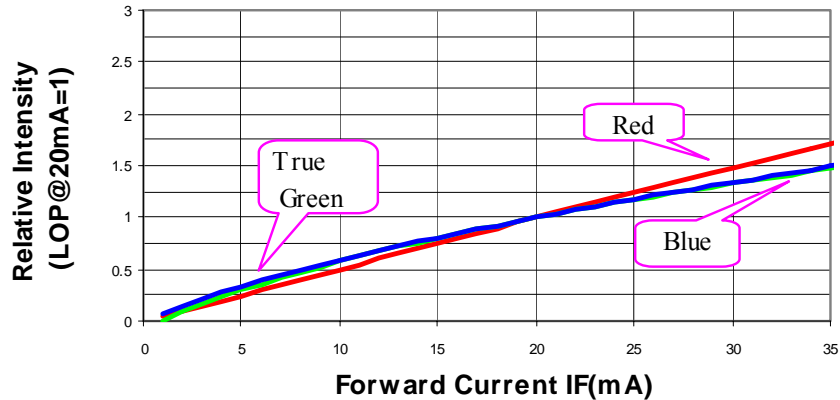
Spectral Radiance Red Peak @ 630nm
True Green Peak @ 518nm
Blue Peak @ 465nm



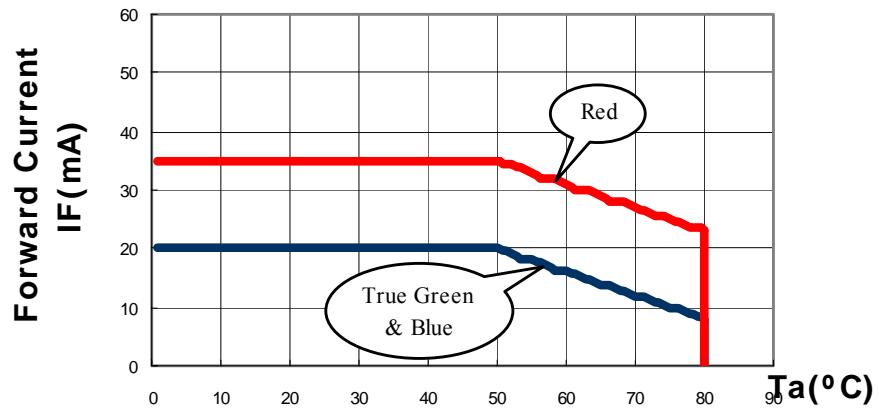
Forward Current vs Forward Voltage



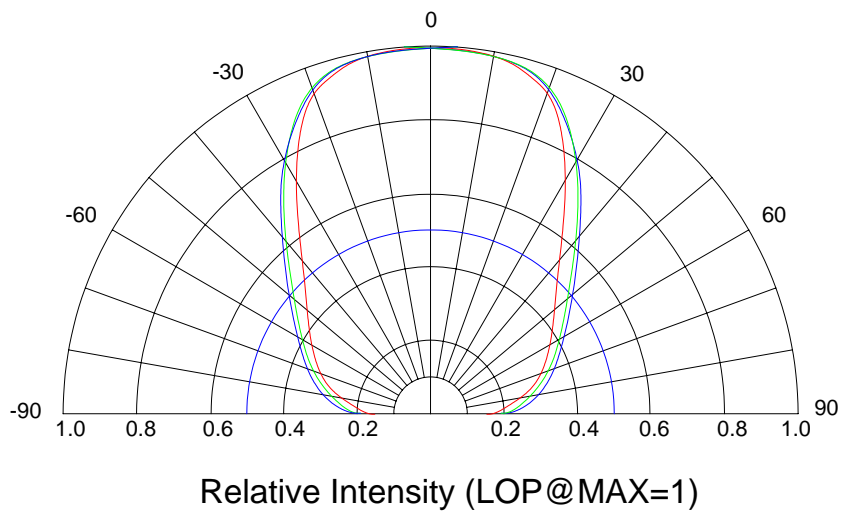
Relative Luminous Intensity vs Forward Current



Forward Current Derating Curve



Beam Pattern



Test Circuit:

