LUCKY LIGHT

Preliminary

LL-U26Z1C-016

DATA SHEET

佳光電子(台山)有限公司
受控文件

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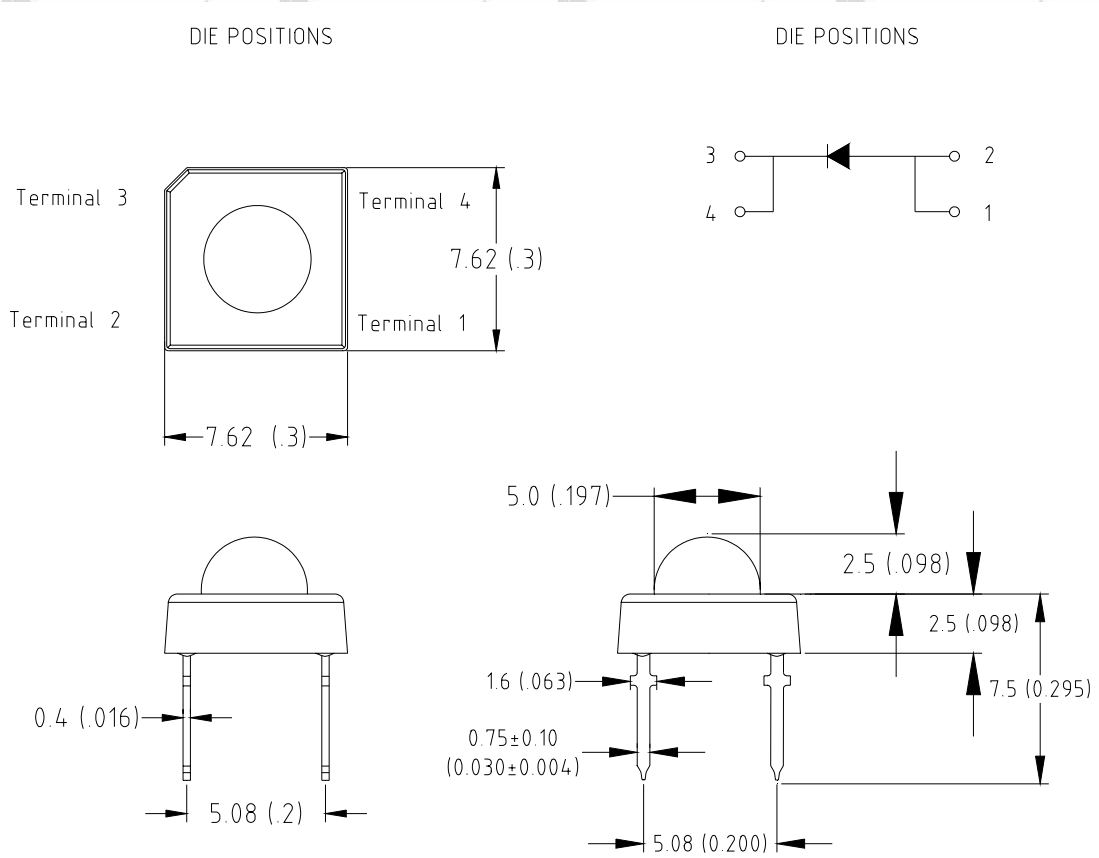
Package Dimensions:



Part NO.	Chip Material	Lens Color	Emission Color
LL-U26Z1C-016	InGaN	Water Clear	Super Bright True Green

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	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℃	0.4	mA/℃
Reverse Voltage	5	V
Electrostatic Discharge (ESD)	150	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℃

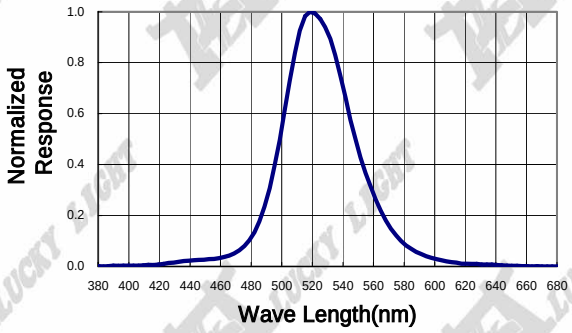
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	690	1500		mcd	I_F=20mA (Note 1)
Viewing Angle	$2\theta_{1/2}$	75	85	95	Deg	(Note 2)
Peak Emission Wavelength	λp	515	520	525	nm	I_F=20mA
Dominant Wavelength	λd	520	525	530	nm	I_F=20mA (Note 3)
Spectral Line Half-Width	△λ	45	50	55	nm	I_F=20mA
Forward Voltage	V_F	2.8	3.4	4.0	V	I_F=20mA
Reverse Current	I_R			50	μA	V_R=5V

Notes:

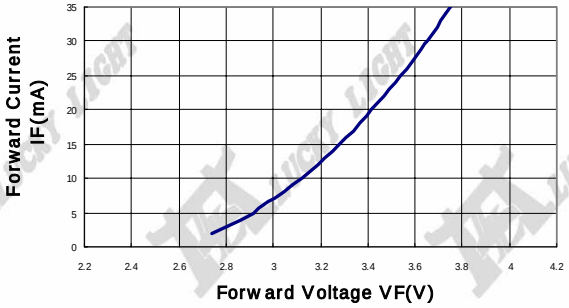
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λd) is derived from the CIE chromaticity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

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

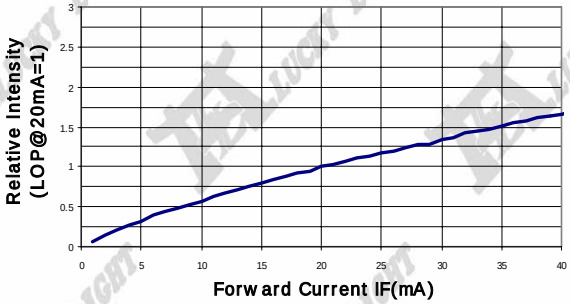
Spectral Radiance (Peak @ 520 nm)



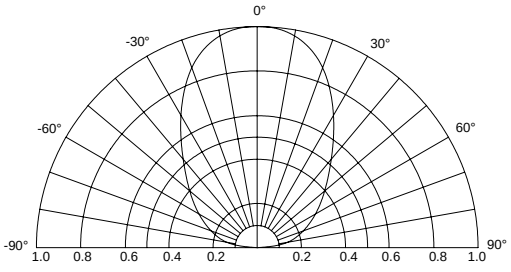
Forward Current
vs Forward Voltage



Relative Luminous Intensity
vs Forward Current

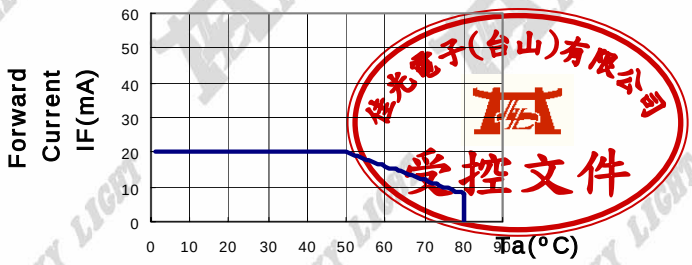


Beam Pattern



Relative Intensity (LOP@MAX=1)

Forward Cureent
Derating Curve



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