LUCKY LIGHT

LL-U47W2C-001

DATA SHEET

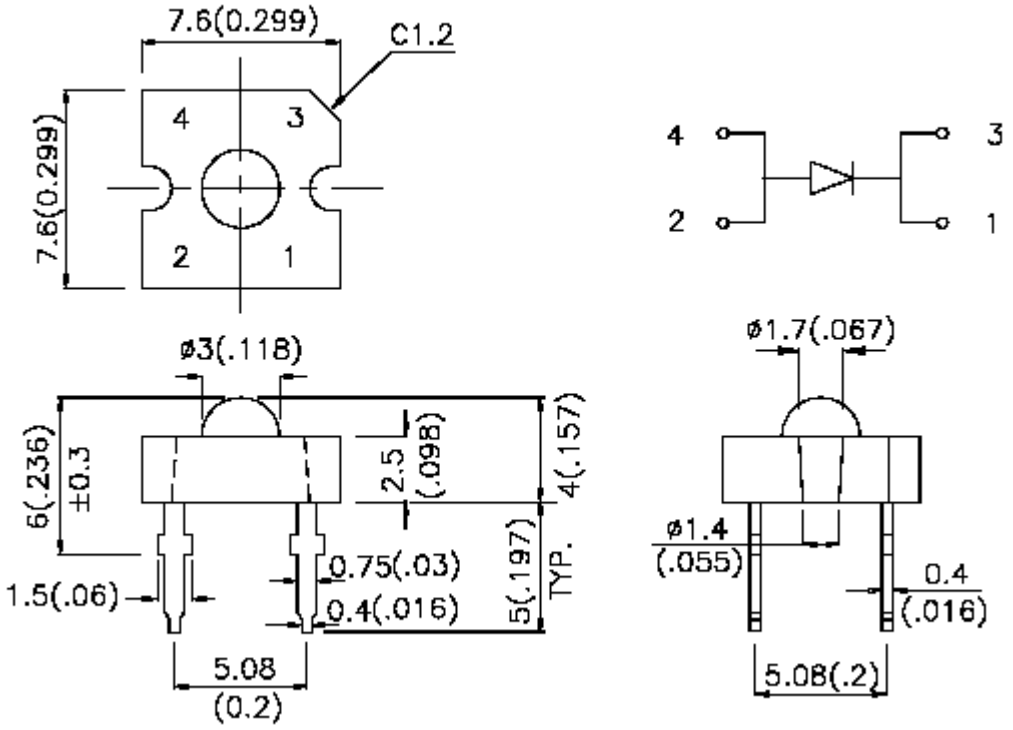
QC:　　ENG:　　Prepared By:

LUCKY LIGHT

Features

- SUPER FLUX OUTPUT
- DESIGN FOR HIGH CURRENT OPERATION
- OUT STANDING MATERIAL EFFICIENCY
- RELIABLE AND RUGGED

Package Dimension:



Part NO.	Material	Lens Color	Source Color
LL-U47W2C-001	GaInN/SiC	Water Clear	White

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(.010")mm unless otherwise noted.
3. Specifications are subject to change without notice.
4. Caution in ESD:
   Siatic Electricity and surge damages the LED. lt is recommend to use a wrist band or anti-electrostatic glove when handling the LED.All devices, equipment and machinery must be properly grounded.

Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	35	mA
Derating Linear From 50℃	0.4	mA/℃
Reverse Voltage	5	V
Operating Temperature Range	-40℃ to +80℃	
Storage Temperature Range	-40℃ to +80℃	
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	Iv	1000	2000	3500	mcd	I_F=70mA (Note 1)
Viewing Angle	$2\theta_{1/2}$	--	70	--	Deg	(Note 2)
$x=\frac{X}{X+Y+Z}=\frac{Red}{Red+Green+Blue}$	x	--	0.29	--	---	I_F=20mA (Note 3)
$y=\frac{Y}{X+Y+Z}=\frac{Green}{Red+Green+Blue}$	y	--	0.3	--	---	I_F=20mA (Note 3)
Forward Voltage	V_F	2.8	3.6	4.0	V	I_F=20mA
Reverse Current	I_R	---	---	100	μA	V_R=5V

Note:

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. It use many parameters that correspond to the CIE 1931 2°. X,Y, and Z are CIE 1931 2°values of Red, Green and Blue content of the measurement.

Typical Electrical / Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)