

Preliminary

LL-U48Y1C-001

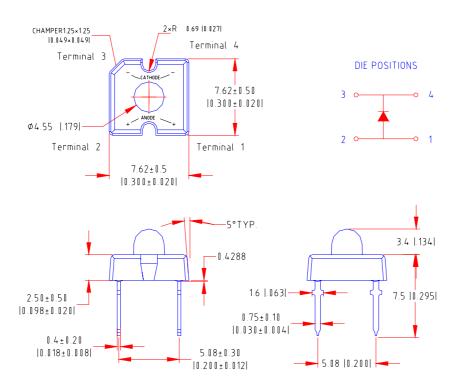
DATA SHEET

QC: ENG: Prepared By:

Part No.	LL-U48Y1C-001	Spec No.	S/N-04030722S	Page	1 of 4
----------	---------------	----------	---------------	------	---------------



Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
LL-U48Y1C-001	AlGaInP	Water Clear	Super Bright Yellow

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 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.
- 7. This data-sheet only valid for six months.

Part No.	LL-U48Y1C-001	Spec No.	S/N-04030722S	Page	2 of 4
----------	---------------	----------	---------------	------	---------------



Absolute Maximum Ratings at Ta=25

Parameter	MAX.	Unit	
Power Dissipation	90	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.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	1200	2800	6000	mcd	I _f =20mA (Note 1)
Viewing Angle	2 1/2	25	30	35	Deg	(Note 2)
Peak Emission Wavelength	р	585	590	595	nm	I _f =20mA
Dominant Wavelength	d	585	590	595	nm	I _f =20mA (Note 3)
Spectral Line Half-Width		15	20	25	nm	I _f =20mA
Forward Voltage	V _f	1.8	2.2	2.7	V	I =20mA
Reverse Current	I R			100	μΑ	V _R =5V

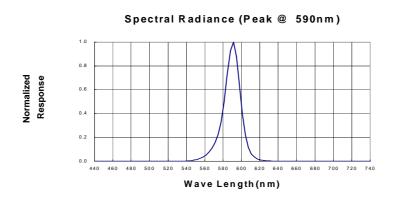
Notes:

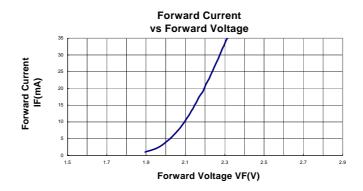
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- **3.**The dominant wavelength (d) is derived from the CIE chromaticity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

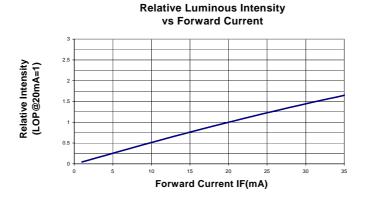
Part No.	LL-U48Y1C-001	Spec No.	S/N-04030722S	Page	3 of 4
----------	---------------	----------	---------------	------	---------------

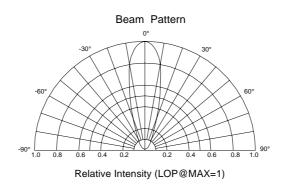


Typical Electrical / Optical Characteristics Curves (25 Ambient Temperature Unless Otherwise Noted)









Part No.	LL-U48Y1C-001	Spec No.	S/N-04030722S	Page	4 of 4
----------	---------------	----------	---------------	------	--------