

Preliminary

LL-309YGC3Q-001

DATA SHEET



QC:何遠花

ENG:鄭文斌

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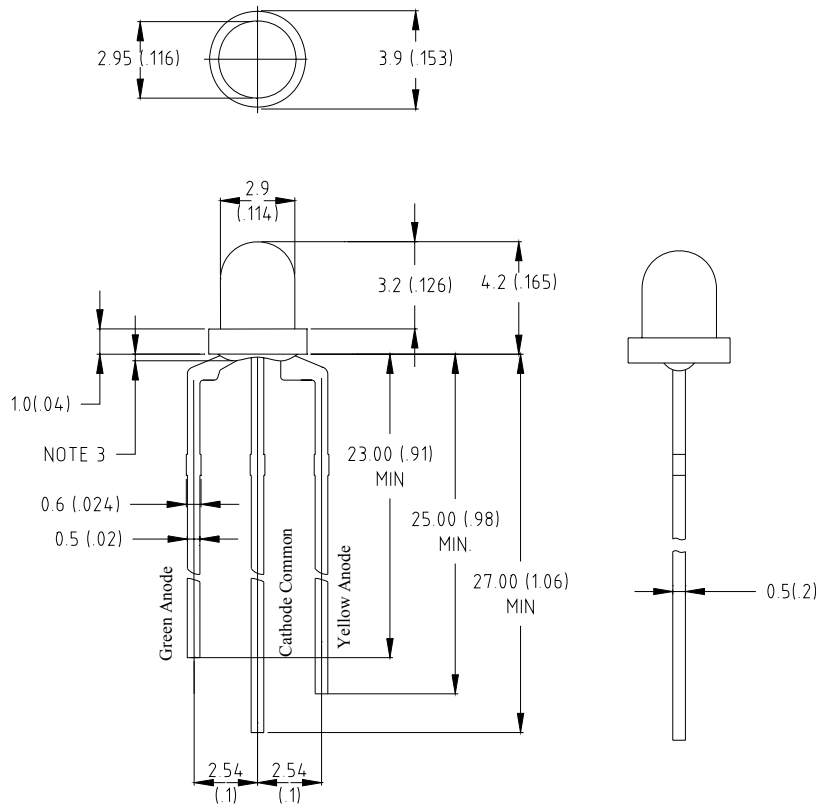


Part No.	LL-309YGC3Q-001	Spec No.	S/N-08091807	Page	1 of 5
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Features:

- ◆ Normal 3mm diameter package
- ◆ General purpose leads
- ◆ Pb-free

Package Dimensions:



Part NO.	Chip Material		Lens Color	Emission Color
LL-309YGC3Q-001	Yellow	Green	Water Clear	Yellow & Green
	GaAsP	GaP		

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.2 mm 5(.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. This data-sheet only valid for six months.



Absolute Maximum Ratings at Ta=25°C

Parameter	MAX		Unit
	Power Dissipation	Green	
	Yellow	90	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	Green	50	mA
	Yellow	35	
Continuous Forward Current	35		mA
Debating Linear From 50°C	0.4		mA/°C
Reverse Voltage	5		V
Operating Temperature Range	-30°C to +80°C		
Storage Temperature Range	-40°C to +100°C		
Lead Soldering Temperature [4mm(.157") From Body]	280°C for 5 Seconds		



Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Emitting Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	Green	14	30		mcd	I _F =20mA Note 1
		Yellow	6	14			
Viewing Angle	2θ _{1/2}	Green	120	130	140	Deg	Note 2
		Yellow	120	130	140		
Peak Emission Wavelength	λ _p	Green	563	568	573	nm	Measurement @Peak
		Yellow	583	588	593		
Dominant Wavelength	λ _d	Green	565	570	575	nm	Note 3
		Yellow	585	590	595		
Spectral Line Half-Width	Δλ	Green	25	30	35	nm	
		Yellow	30	35	40		
Forward Voltage	V _F	Green	1.7	2.2	2.6	V	I _F =20mA
		Yellow	1.6	2.1	2.5		
Reverse Current	I _R	Green			10	μA	V _R =5V
		Yellow					

Notes:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ_d) 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°C Ambient Temperature Unless Otherwise Noted)

