

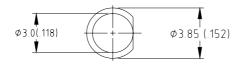
Part No. GB-224SG1C Spec No. LL-304GC2E-018 Page 1 of 4

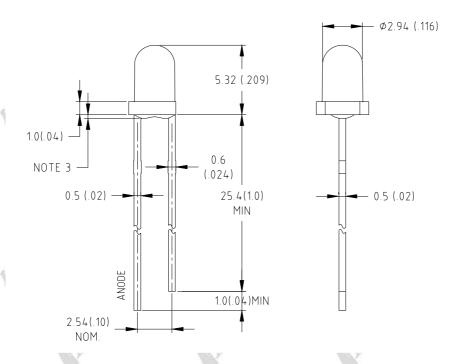


### **Features:**

- ♦ High intensity
- ♦ Standard 3mm diameter package
- ♦ General purpose leads
- ♦ RoHS compliant

## **Package Dimensions:**

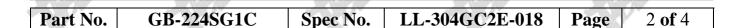




Part No.	Chip Material	Lens Color	Emission Color
GB-224SG1C	AlGaInP	Water Clear	Super Bright Green

#### **Notes:**

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25$ mm (.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.





**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°C	0.4	mA/℃	
Reverse Voltage	5	V	
Operating Temperature Range -30°C to +85°C			
Storage Temperature Range	-40°C to +100°C		
Lead Soldering Temperature [4mm(.157") From Body] 260°C for 5 Seconds			

### Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	$I_V$	460	1000	3	mcd	I <sub>F</sub> =20mA (Note 1)
Viewing Angle	$2\theta_{1/2}$		25		Deg	(Note 2)
Peak Emission Wavelength	λр		575	9	nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		570		nm	I <sub>F</sub> =20mA (Note 3)
Spectral Line Half-Width	$\triangle \lambda$		20		nm	I <sub>F</sub> =20mA
Forward Voltage	$V_{\mathrm{F}}$		2.0	2.6	V	I <sub>F</sub> =20mA
Reverse Current	$I_R$		A S	50	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.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axis luminous intensity.

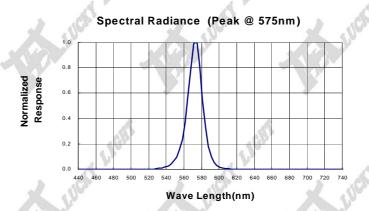
3. The dominant wavelength ( $\lambda d$ ) is derived from the CIE chromaticity diagram and represent the single wavelength which defines the color of the device.

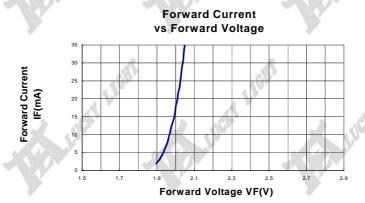
- 4. Forward voltage measurement allowance is  $\pm 0.1$ V
- 5. Luminous Intensity Measurement Allowance is  $\pm 10\%$

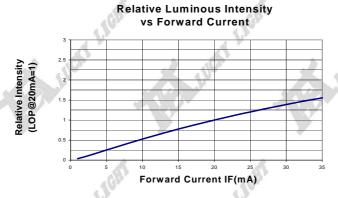
Part No.	GB-224SG1C	Spec No.	LL-304GC2E-018	Раде	3 <b>of</b> 4
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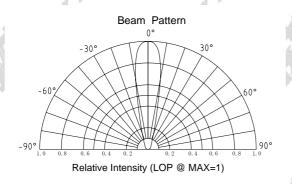


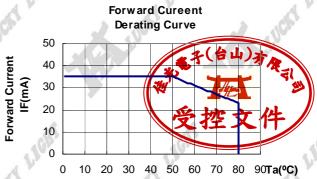
# Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)











Part No. | GB-224SG1C | Spec No. | LL-304GC2E-018 | Page | 4 of 4