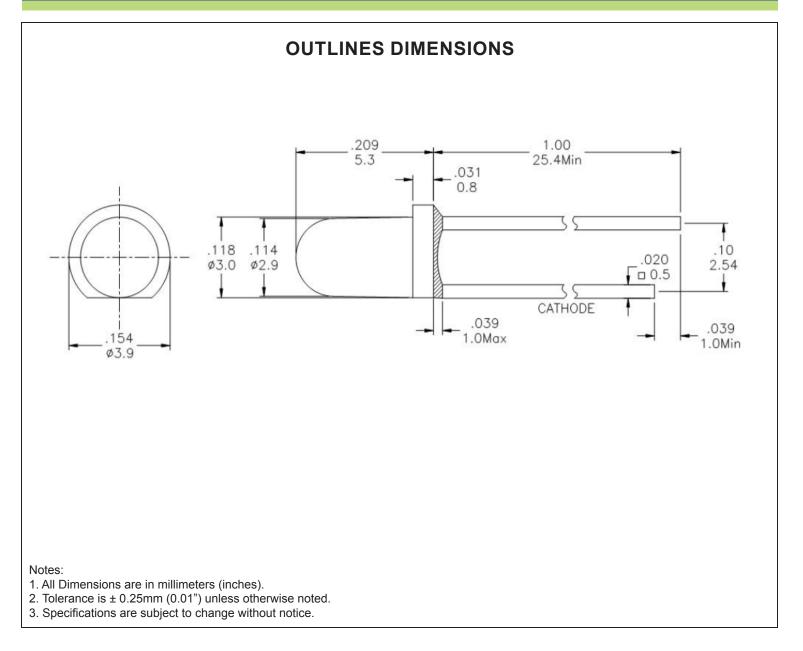


SPECIFICATIONS



| Part Number | Chip Material | Color of Emission | Lens Type | Viewing Angle | |
|-------------|---------------|-------------------|----------------|---------------|--|
| CL30G2D | InGaAIP | Green | Green Diffused | 50° | |



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

CL30G2D

17700 Castleton Street, #588 | City of Industry, CA 91748 | T: 626-964-9040 | F: 626-964-9072 | www.chromeled.com



ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

| Parameter | Symbol | Max Rating | Unit | | |
|---|--------|------------|------|--|--|
| Power Dissipation | PD | 72 | mW | | |
| Pulse Current Forward Current | lfp | 100 | mA | | |
| Continuous Forward Current | lF | 30 | mA | | |
| Reverse Voltage | VR | 5 | V | | |
| Operating Temperature Range | Topr | -40~+80 | °C | | |
| Storage Temperature Range | Тѕтс | -40~+100 | °C | | |
| IFP = Pulse Width \leq 10 ms, Duty Ratio \leq 1/10. Soldering Condition: 260 °C/ 5sec | | | | | |

OPTICAL-ELECTRICAL CHARACTERISTICS

Value **Test Condition** Parameter Symbol Unit Min Тур Max 16 45 Luminous Intensity Iv I_F = 20mA _ mcd Forward Voltage I⊧ = 10mA 2.0 2.4 V VF _ 10 **Reverse Leakage Current** $V_R = 5V$ _ IR _ μA **Viewing Angle** $2\theta 1/2$ I_F = 10mA 50 _ _ deg I⊧ = 10mA 570 **Dominant Wavelength** _ λD _ nm

*Tolerance of viewing angle: -10 / +5 deg.

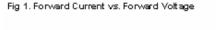


ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

(TA=25°C)



OPTICAL CHARACTERISTIC CURVES



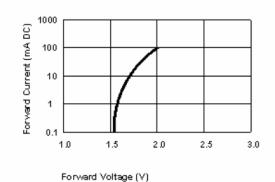
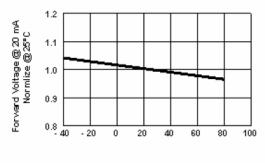
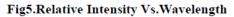


Fig 3. Forward Voltage vs. Temperature



Ambient Temperature (°C)



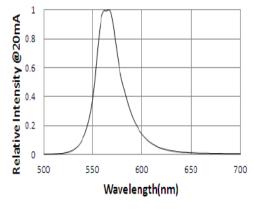
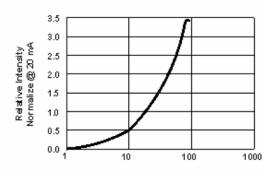
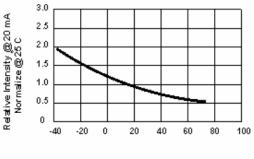


Fig 2. Relative Intensity vs. Forward Current



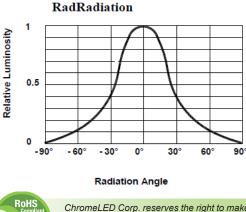






Ambient Temperature(°C)

Fig6.Relative Luminous Intensity Vs.



RoHS Compliant Conder to support of this docum

ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

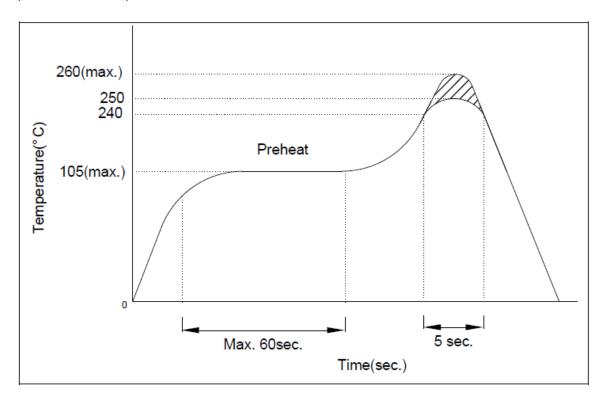


SOLDERING CONDITIONS – LAMP TYPE LED

PRECAUTION FOR USE

- 1. Recommended Soldering Condition
 - 1.1 Wave Soldering

Basic spec is ≤ 5 sec. when 260°C. If temperature is higher, time should be shorter (+10°C \rightarrow -1 sec).



1.2 Soldering Iron

Power dissipation of iron should be smaller than 15W and temperature should be controllable. Surface temperature of iron tip should be under 230° C, soldering time ≤ 3 sec.

2. Electrostatic Discharge (ESD)

Static electricity or surge voltage will damage the LEDs. Use of conductive wrist band or anti-electrostatic glove when handling these LEDs is recommended. All devices, equipment, work table, storage rack and machinery must be properly grounded.

In the events of manual working in process, make sure devices are well protected from ESD at all times.



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com