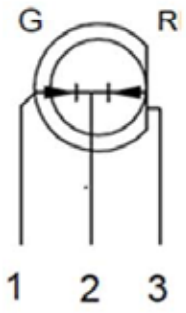
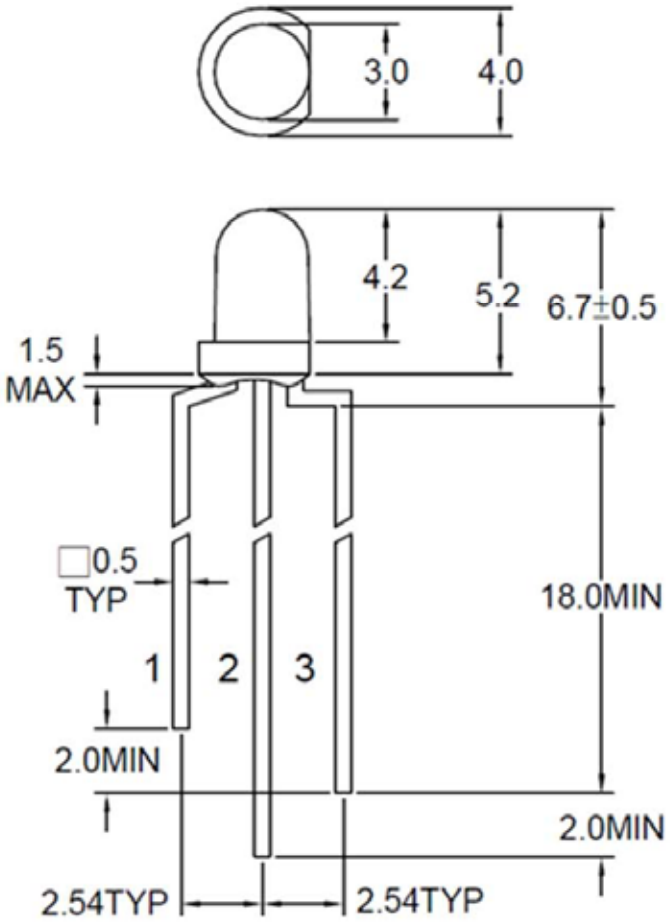
SPECIFICATIONS CLB30R1G1WCC

OUTLINES DIMENSIONS

DESCRIPTION
* Round Type
* 3mm Diameter
* Lens Color: White Diffused
* With Flange
* Solder Leads Without Standoffs

FEATURES
* Emitting Colors: Red/Green
* Standard Luminous Intensity
* Technology GaAsP/GaP
* Viewing Angle: 60 Deg





Notes:
1. All Dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm (0.01”) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CLB30R1G1WCC	GaAsP/GaP	Red/Green	White Diffused	60°

RoHS Compliant Lead Free

ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	P_D	100	mW
Pulse Current Forward Current	I_{FP}	120	mA
Continuous Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_{OPR}	-40~+85	°C
Storage Temperature Range	T_{STG}	-40~+100	°C
I_{FP} = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS (TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I_V	I_F = 10mA	Red	8	12	-	mcd
			Green	8	12	-	
Forward Voltage	V_F	I_F = 20mA	RED	1.7	-	2.6	V
			Green	1.7	-	2.6	
Reverse Leakage Current	I_R	V_R = 5V	RED	-	-	10	μA
			Green	-	-	10	
Viewing Angle	2θ1/2	I_F = 20mA	RED	-	60	-	deg
			Green	-	60	-	
Dominant Wavelength	λ_D	I_F = 20mA	RED	-	635	-	nm
			Green	-	565	-	

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

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OPTICAL CHARACTERISTIC CURVES (RED)

Fig.1 Forward current vs. Forward Voltage

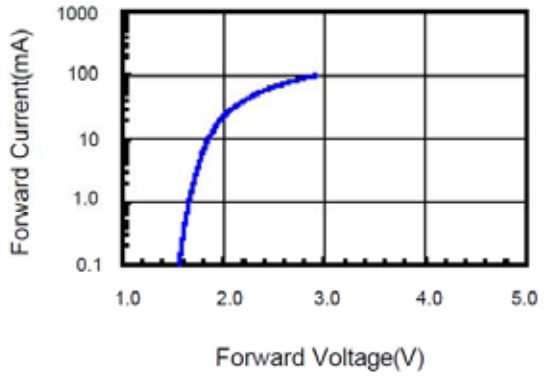


Fig.2 Relative Intensity vs. Forward Current

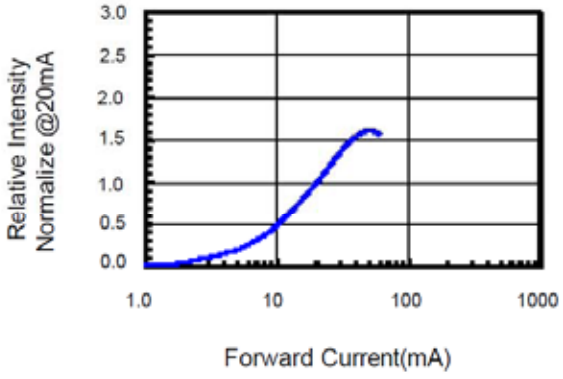


Fig.3 Forward Voltage vs. Temperature

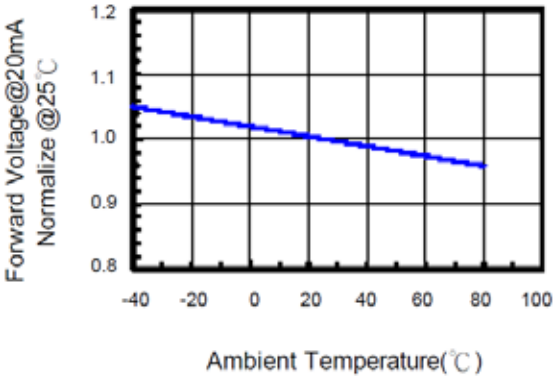


Fig.4 Relative Intensity vs. Temperature

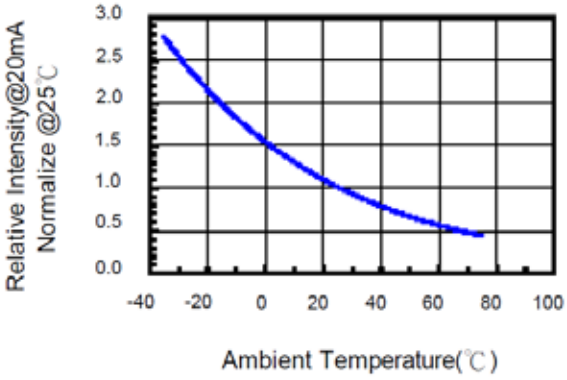
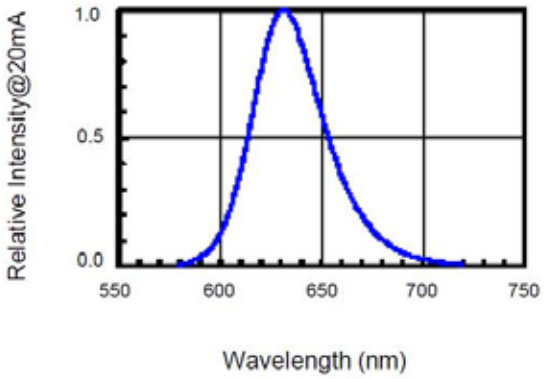


Fig.5 Relative Intensity vs. Wavelength



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OPTICAL CHARACTERISTIC CURVES (GREEN)

Fig.1 Forward current vs. Forward Voltage

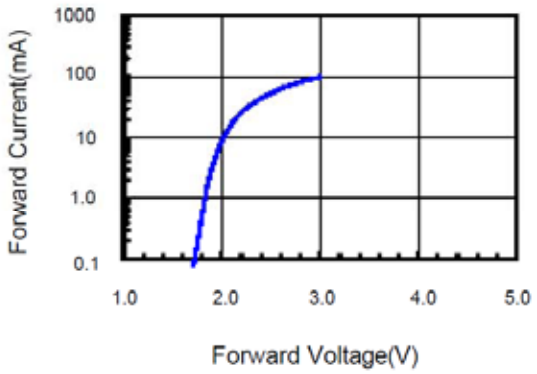


Fig.2 Relative Intensity vs. Forward Current

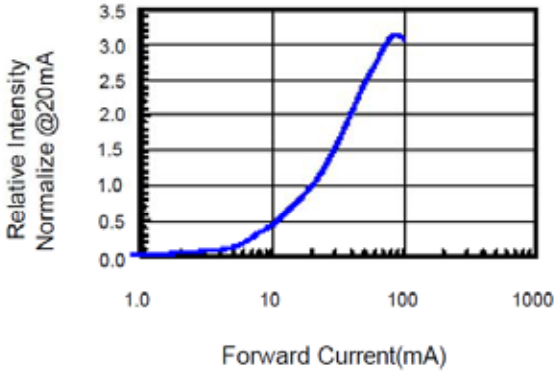


Fig.3 Forward Voltage vs. Temperature

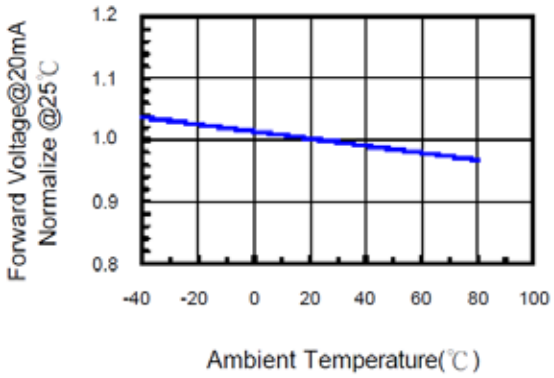


Fig.4 Relative Intensity vs. Temperature

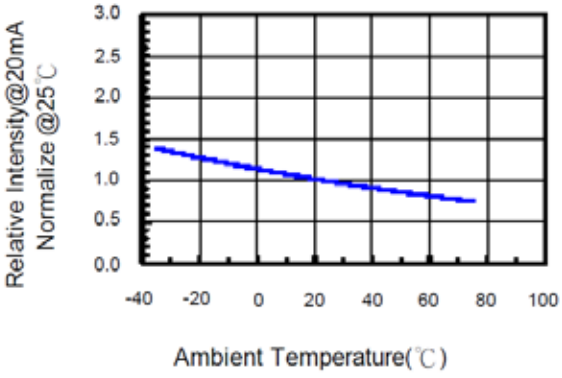
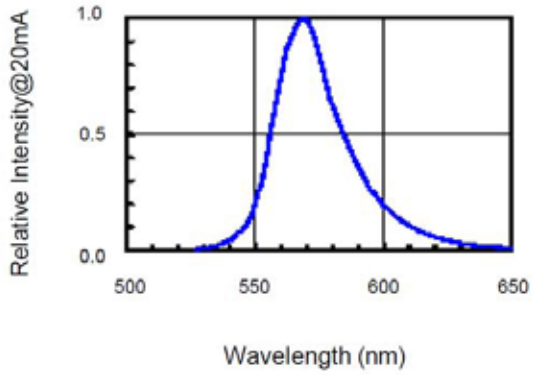


Fig.5 Relative Intensity vs. Wavelength



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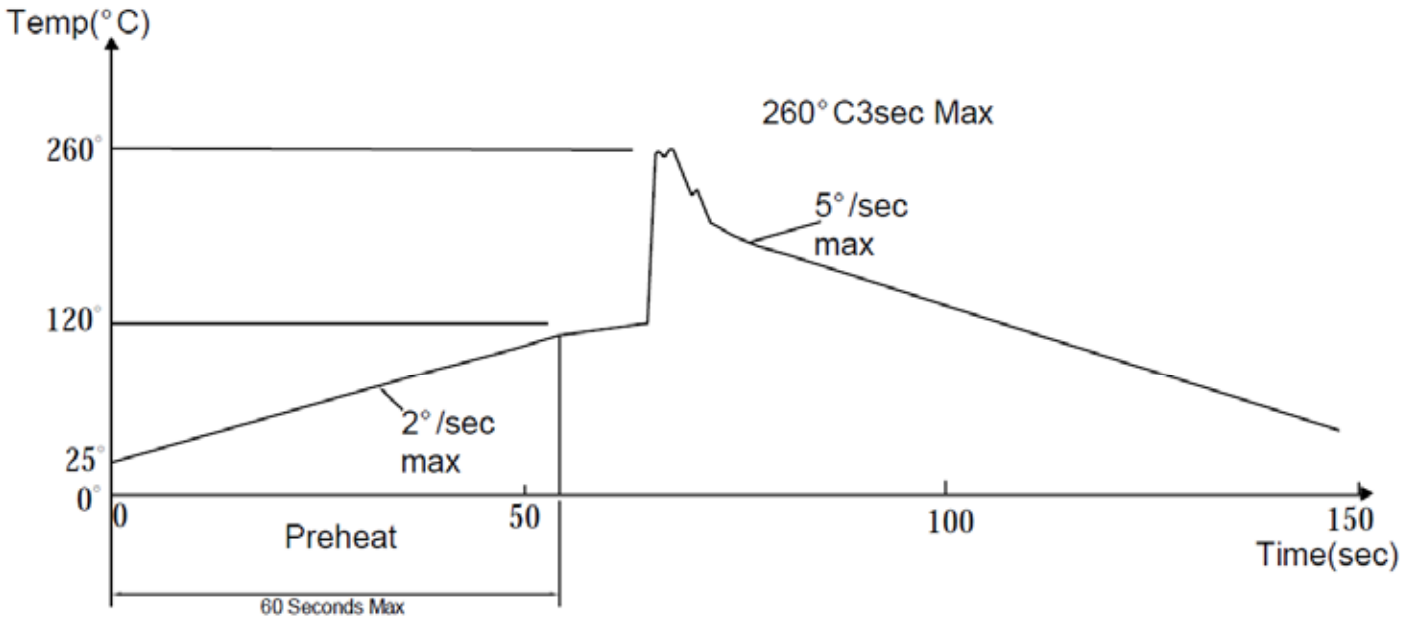
SOLDERING CONDITIONS – LAMP TYPE LED

SOLDERING CONDITION (Pb-Free)

1. Iron:
   - Soldering Iron: 30W Max
   - Temperature 350°C Max
   - Soldering Time: 3 Seconds Max (One Time)
   - Distance: 2mm Min (From solder joint to body)

2. Wave Soldering Profile
   - Dip Soldering
   - Preheat: 120°C Max
   - Preheat time: 60 seconds Max
   - Ramp-up
   - 2°C/sec (Max)
   - Ramp-Down: -5°C/sec (Max)
   - Solder Bath: 260°C Max
   - Dipping Time: 3 seconds Max
   - Distance: 2mm Min (from solder joint to body)



Notes:
1. Wave solder should not be made more than one time.
2. Only select one of the soldering conditions as above.