

SPECIFICATIONS **CLB507RR1G2C**

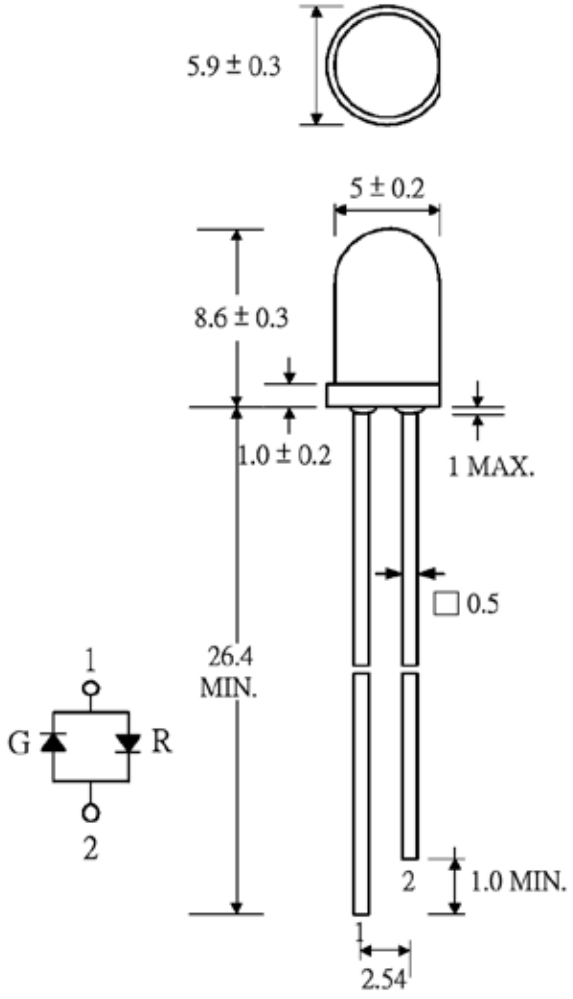
OUTLINES DIMENSIONS

DESCRIPTION

- * Round Type
- * 5mm Diameter
- * Lens Color: Water Clear
- * With Flange
- * Solder Leads Without Standoffs

FEATURES

- * Emitting Colors: Red/Green
- * Standard Luminous Intensity
- * Technology AlGaAs/InGaAIP
- * Viewing Angle: 40 Deg



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

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CLB507RR1G2C	AlGaAs/InGaAIP	Red/Green	Water Clear	40°



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

ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	80	mW
Pulse Current Forward Current	IFP	120	mA
Continuous Forward Current	IF	30	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-40~+85	°C
Storage Temperature Range	TSTG	-40~+85	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec			

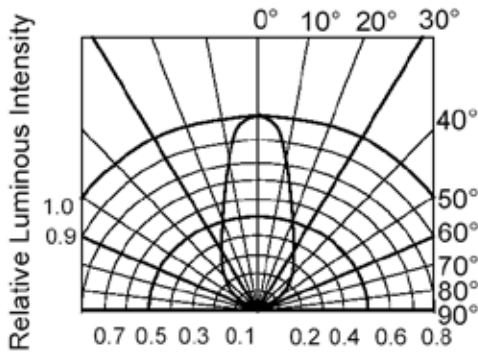
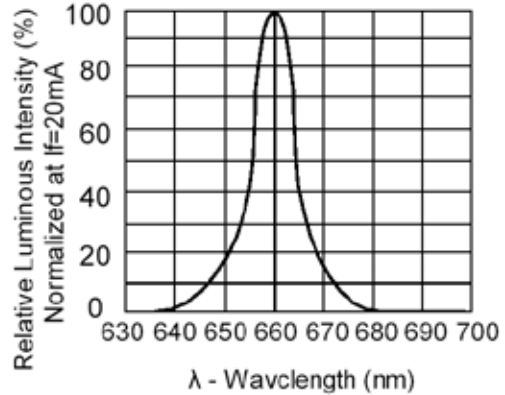
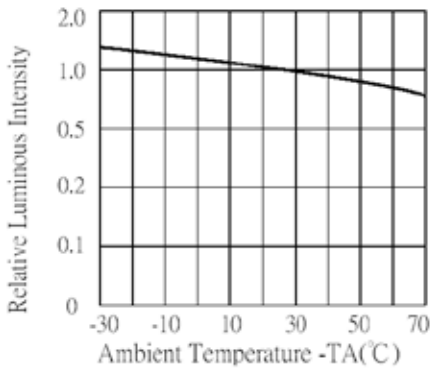
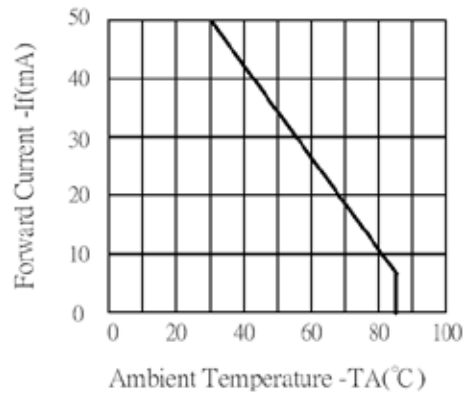
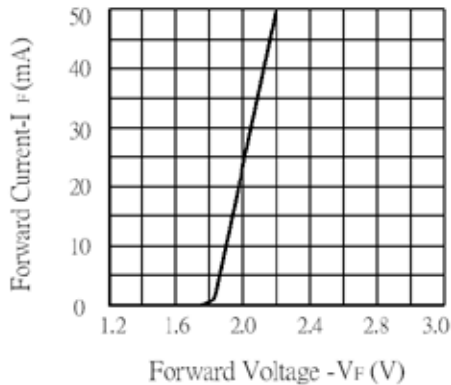
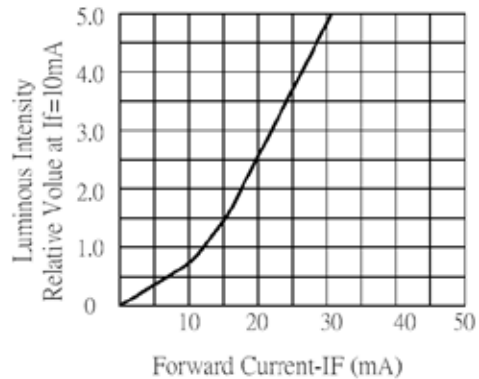
OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	Red	-	250	-	mcd
			Green	-	800	-	
Forward Voltage	VF	IF = 20mA	RED	-	1.9	2.4	V
			Green	-	2.0	2.4	
Reverse Leakage Current	IR	VR = 5V	RED	-	-	10	µA
			Green	-	-	10	
Viewing Angle	2θ1/2	IF = 20mA	RED	-	40	-	deg
			Green	-	40	-	
Dominant Wavelength	λD	IF = 20mA	RED	-	645	-	nm
			Green	-	572	-	

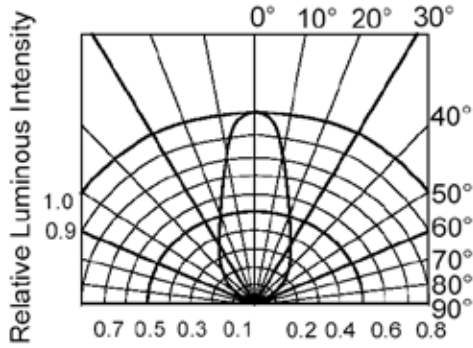
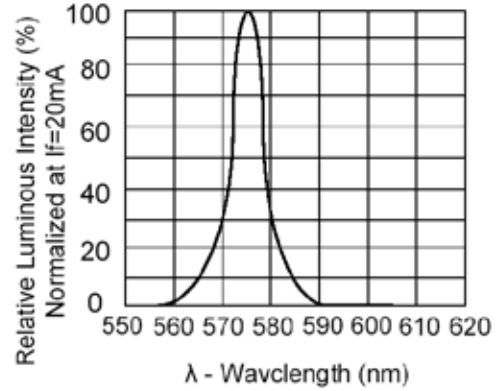
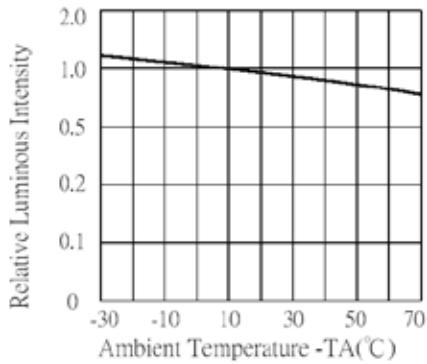
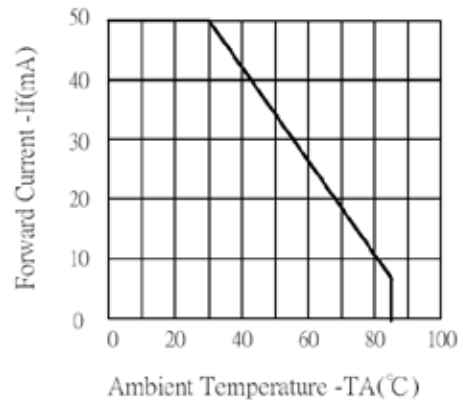
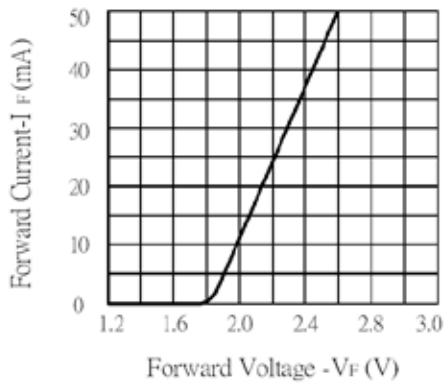
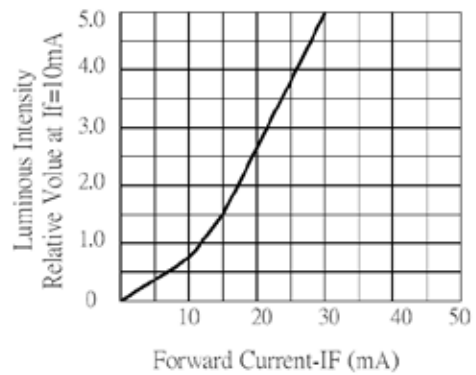
*Tolerance of viewing angle: -10 / +5 deg.



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

OPTICAL CHARACTERISTIC CURVES (RED)

RADIATION DIAGRAM

RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

FORWARD CURRENT Vs. AMBIENT TEMPERATURE

FORWARD CURRENT Vs. FORWARD VOLTAGE

LUMINOUS INTENSITY Vs. FORWARD CURRENT


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

OPTICAL CHARACTERISTIC CURVES (GREEN)

RADIATION DIAGRAM

RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

FORWARD CURRENT Vs. AMBIENT TEMPERATURE

FORWARD CURRENT Vs. FORWARD VOLTAGE

LUMINOUS INTENSITY Vs. FORWARD CURRENT


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

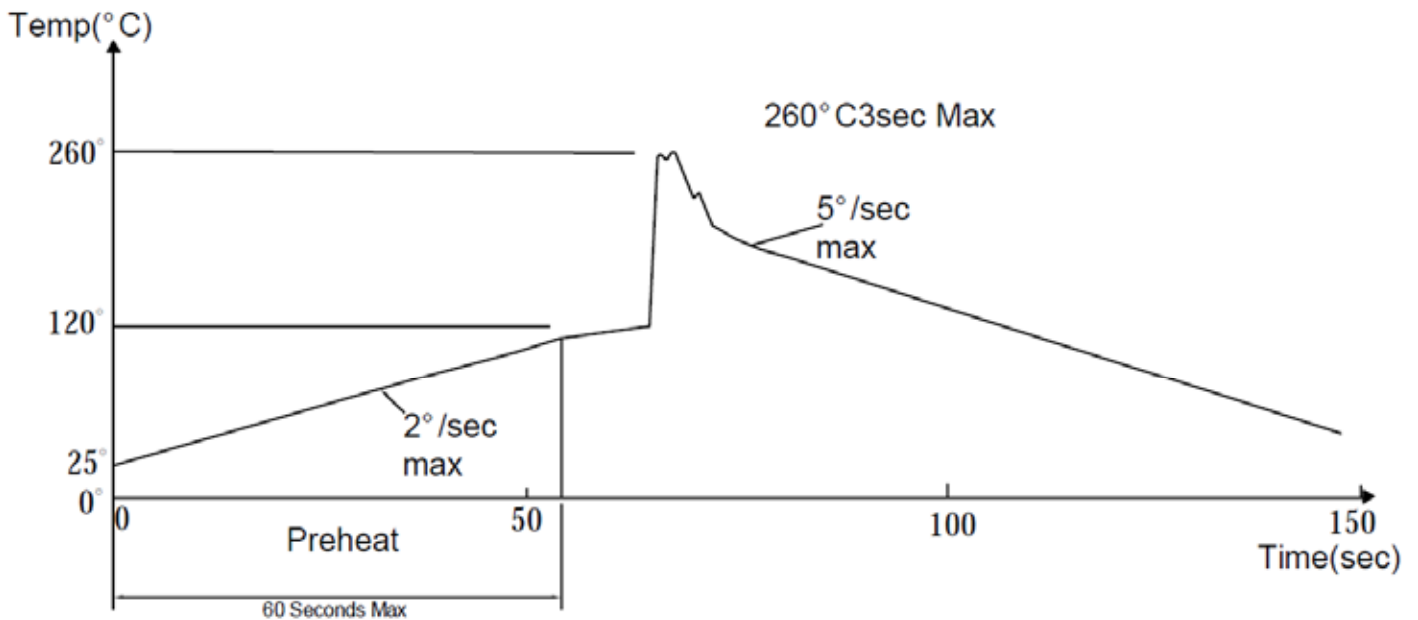
SOLDERING CONDITION (Pb-Free)

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.



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