

SPECIFICATIONS **CLF30G2C**

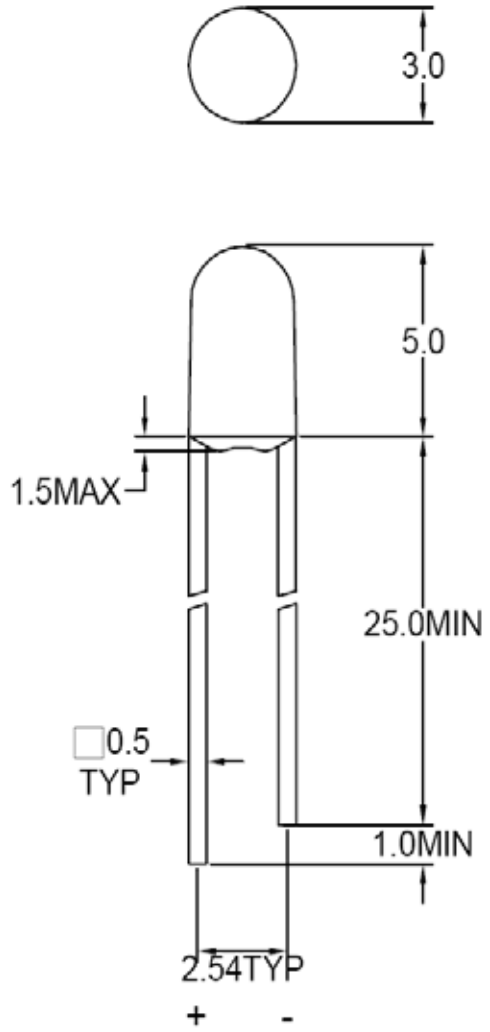
OUTLINES DIMENSIONS

DESCRIPTION

- Super Bright LED Lamp
- Round Type
- 3mm Diameter
- Lens Color: Water Clear
- Without Flange
- Solder leads without standoff

FEATURES

- Emitted Color: Yellow-Green
- High Luminous Intensity
- Technology: AlGaInP
- Viewing Angle: 44°



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

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CLF30G2C	InGaAlP	Green	Water Clear	44°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	75	mW
Pulse Current Forward Current	IFP	60	mA
Continuous Forward Current	IF	30	mA
Reverse Voltage	VR	5.0	V
Operating Temperature Range	TOPR	-40~+85	°C
Storage Temperature Range	TSTG	-40~+100	°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	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	200	350	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.1	2.6	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	µA
Viewing Angle	2θ1/2	IF = 20mA	-	44	-	deg
Dominant Wavelength	λD	IF = 20mA	-	574	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

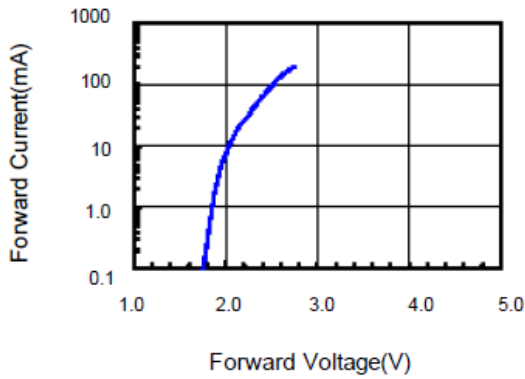


Fig.2 Relative Intensity vs. Forward Current

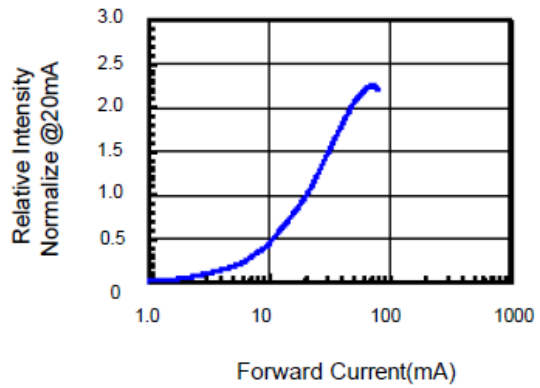


Fig.3 Forward Voltage vs. Temperature

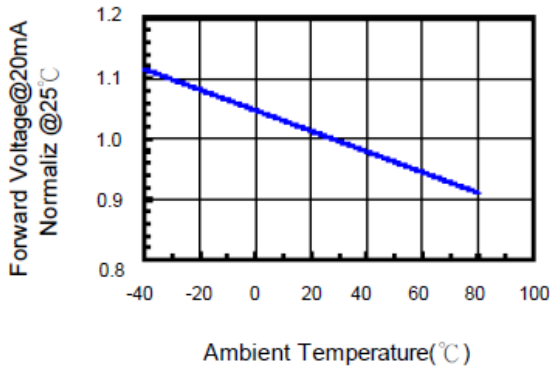


Fig.4 Relative Intensity vs. Temperature

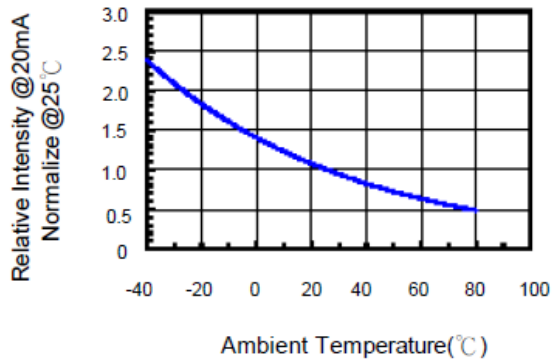
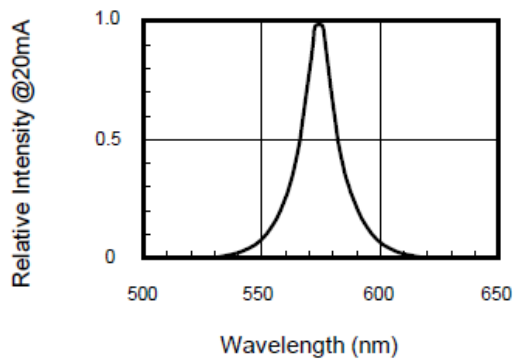


Fig.5 Relative Intensity vs. Wavelength



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SOLDERING CONDITIONS – LAMP TYPE LED

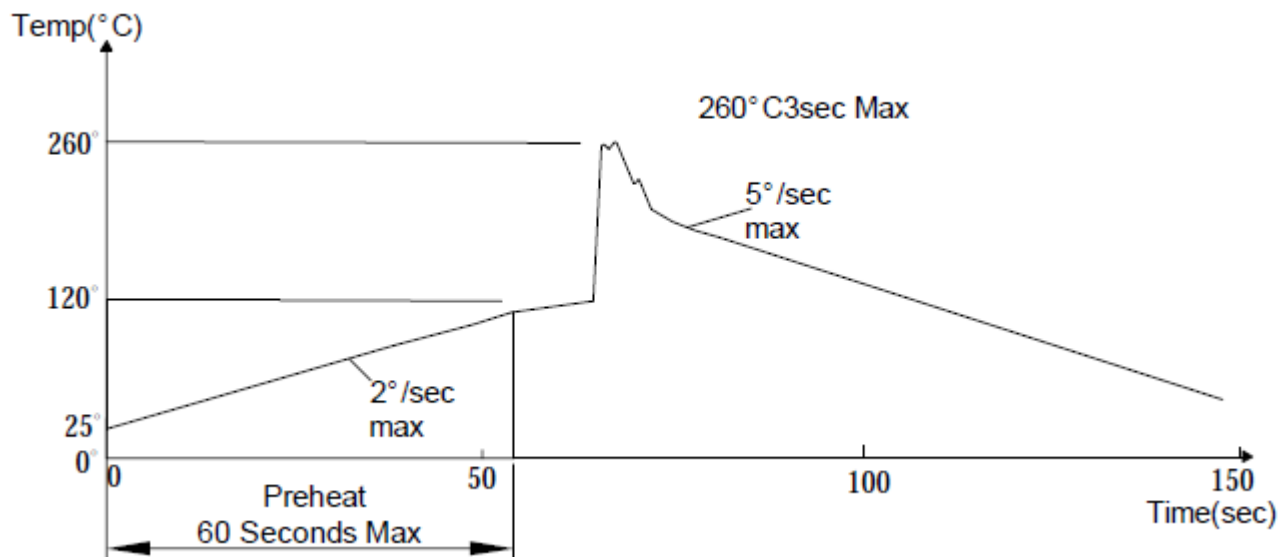
SOLDERING CONDITION (Pb-Free)

1. Iron

Soldering iron: 30W Max
 Temperature: 350°C Max
 Soldering time: 3 seconds max (one time only)
 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. You can only select one of the soldering conditions as above.



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