

SPECIFICATIONS **CL30A3D**

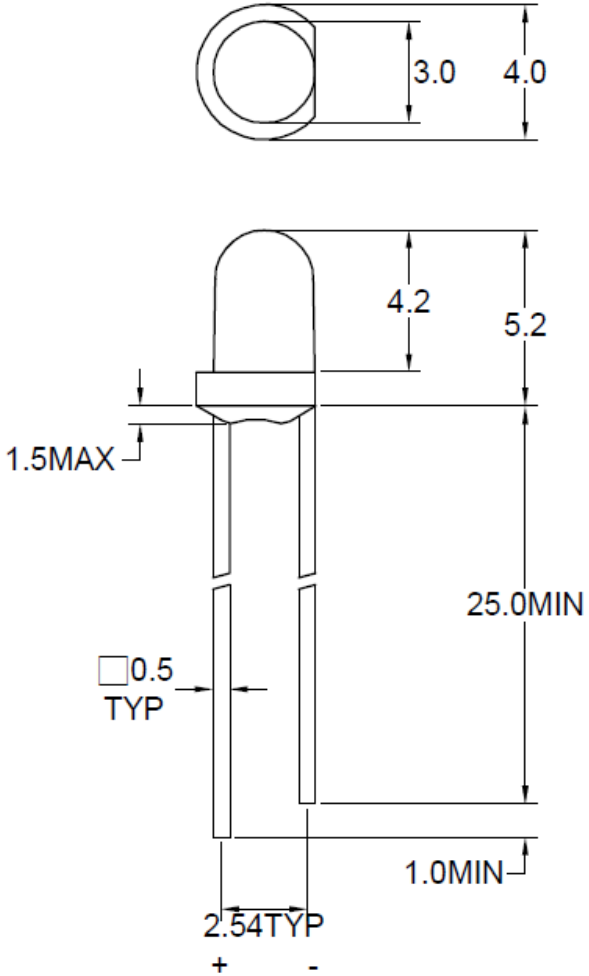
OUTLINES DIMENSIONS

DESCRIPTION

- Round Type
- 3mm Diameter
- Lens Color: Orange Diffused
- With Flange
- Solder leads without standoffs

FEATURES

- Emitted Color: Orange
- Technology: AlGaInP
- High Luminous Intensity
- Dominant Wavelength $\lambda_D = 605\text{nm}$
- Viewing Angle: 36°



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
CL30A3D	InGaAlP	Amber	Amber Diffused	36°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	65	mW
Pulse Current Forward Current	IFP	60	mA
Continuous Forward Current	IF	25	mA
Reverse Voltage	VR	5	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	900	1500	-	mcd
Forward Voltage	VF	IF = 20mA	1.7	-	2.6	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	μA
Viewing Angle	2θ1/2	IF = 20mA	-	36	-	deg
Dominant Wavelength	λD	IF = 20mA	-	605	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

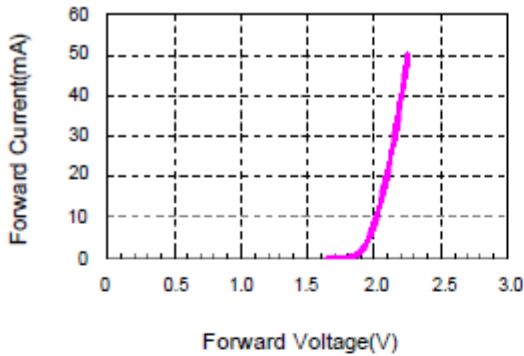


Fig.2 Relative Intensity vs. Forward Current

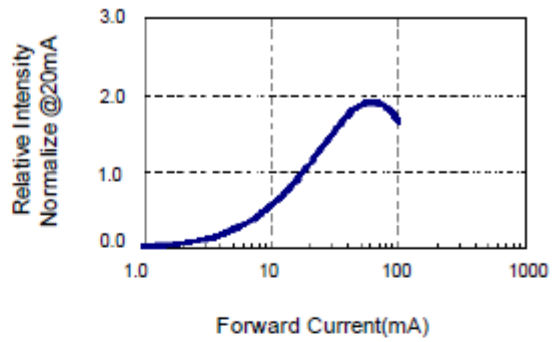


Fig.3 Forward Voltage vs. Temperature

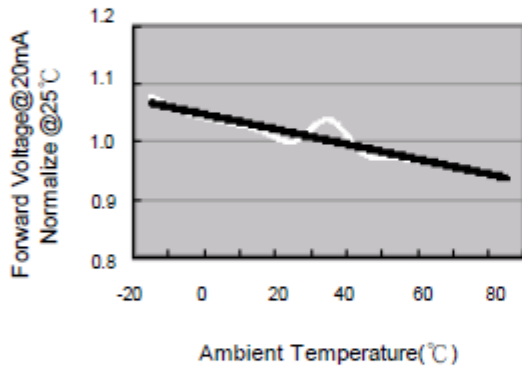


Fig.4 Relative Intensity vs. Temperature

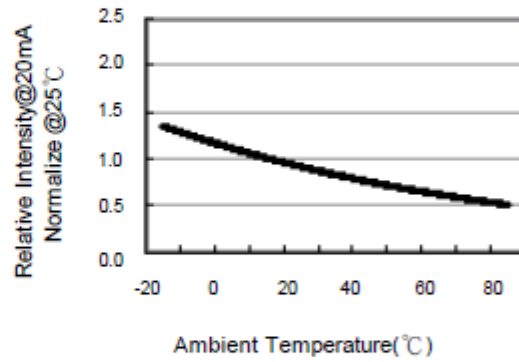
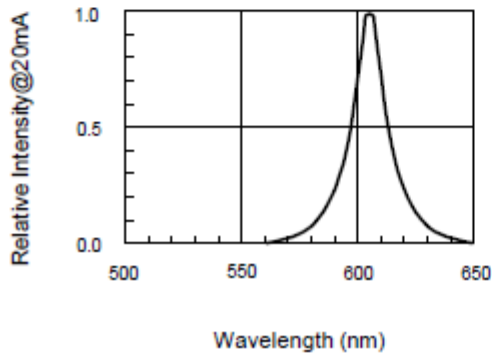
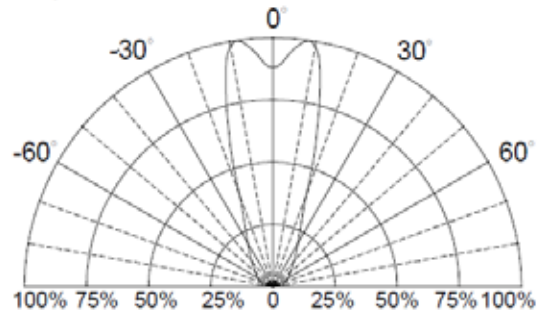


Fig.5 Relative Intensity vs. Wavelength



Directivity Radiation



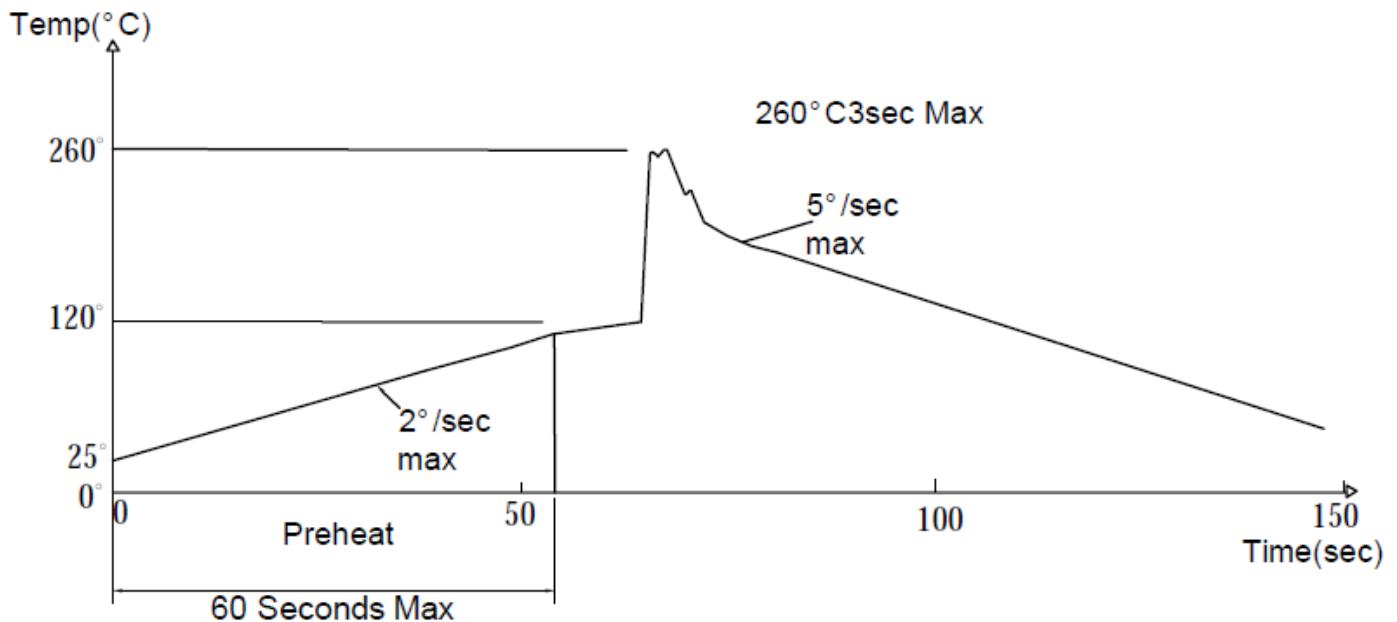
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SOLDERING CONDITIONS – LAMP TYPE LED

SOLDERING PROFILE

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: 120 seconds max
 - 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.



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