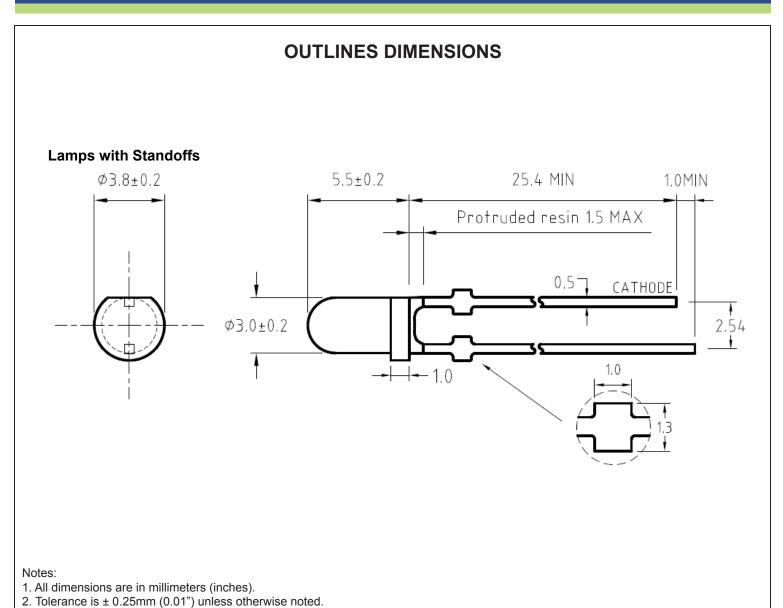


3. Specifications are subject to change without notice.

SPECIFICATIONS CLS30W3C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CLS30W3C	InGaN	White	Water Clear	20°



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	Po	108	mW	
Pulse Current Forward Current	lfp	100	mA	
Continuous Forward Current	lF	30	mA	
Reverse Voltage	VR	5	V	
Operating Temperature Range	Topr	-25~+85	°C	
Storage Temperature Range	Тѕтс	-35~+85	°C	
I _{FP} = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec				

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Symbol	Test Condition	Value			Lloit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	lv	I⊧ = 20mA	7000	10000	ı	mcd
Forward Voltage	VF	I _F = 20mA	-	3.2	3.6	V
Reverse Leakage Current	lR	V _R = 5V	-	-	50	μΑ
Viewing Angle	201/2	I⊧ = 20mA	-	20	1	deg
CIE Coordinate	X	I⊧ = 20mA	_	0.31	1	1
CIE Coordinate	Υ	I⊧ = 20mA	-	0.32	1	-

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

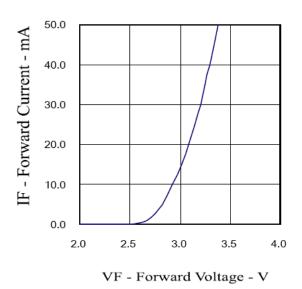


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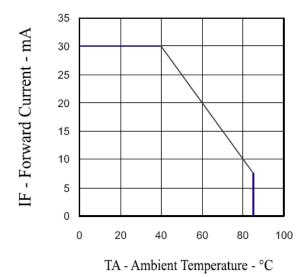


OPTICAL CHARACTERISTIC CURVES

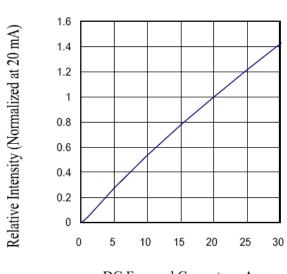
Forward Current vs. Forward Voltage



Forward Current vs. Ambient Temperature

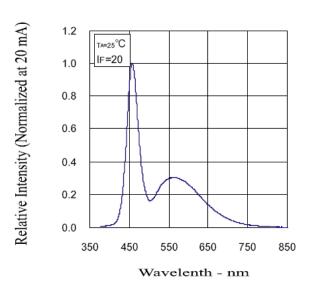


Relative Intensity vs. Forward Current



DC Forward Current - mA

Relative Intensity vs. Wavelength







SOLDERING CONDITIONS – LAMP TYPE LED

- * Solder the LED no closer than 3mm from the base of the epoxy bulb. Soldering beyond the base of the tie bar is recommended.
- * Recommended soldering conditions

Dip Soldering			
Pre-Heat	100 °C Max		
Pre-Heat Time	60 Second Max		
Solder Bath Temperature	260 °C Max		
Dippng Time	5 Second Max		
Dipping Position	No lower than 3mm from the base of the epoxy		

Hand Soldering				
Temperature Soldering Time Position	3mm Series	Others		
	300 °C Max	350 °C Max		
	3 Second Max	3 Second Max		
	No closer than 3mm from the	No closer than 3mm from the		
	base of the epoxy	base of the epoxy		

- * Do not apply any stress to the lead. Particularly when heated.
- * The LED must not be repositioned after soldering.
- * After soldering the LEDs, the epoxy bulb should be protected from mechanical shock or vibration until the LEDs return to room temperature.
- * Direct soldering onto a PC board should be avoided. Mechanical stress to the resin may be caused by the PC board warping or from the clinching and cutting of the leadframes. When it is absolutely necessary, the LEDs may be mounted in this fashion, but, the user will assume responsibility for any problems. Direct soldering should only be done after testing has confirmed that no damage, such as wire bond failure or resin deterioration, will occur. LEDs should not be soldered directly to double sided PC boards because the heat will deteriorate the epoxy resin.
- * When it is necessary to clamp the LEDs to prevent soldering failure, it is important to minimize the mechanical stress on the LEDs.
- * Cut the LED leadframes at room temperature. Cutting the leadframes at high temperature may cause LED failure.

