

**SPECIFICATIONS** **CL10W2C**

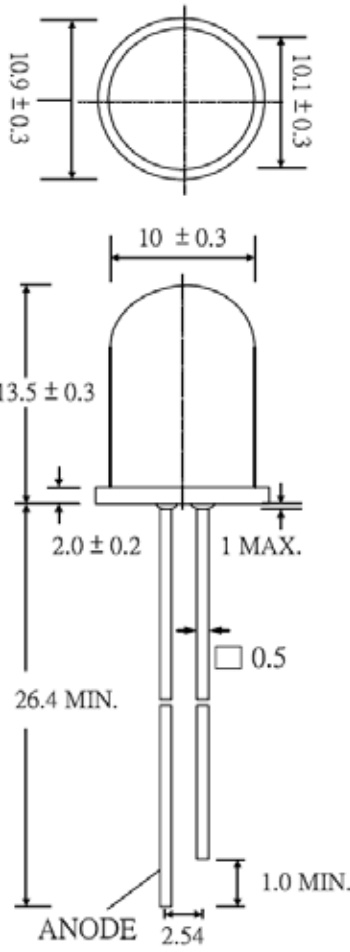
**OUTLINES DIMENSIONS**

**DESCRIPTION**

- Super bright LED lamp
- Round type
- 10mm diameter
- Lens color: Water clear
- With flange
- Solder leads without stand-off

**FEATURES**

- Emitted color: White
- High luminous intensity
- Technology: InGaN
- Typical emission color:  
x = 0.31, y = 0.32
- Viewing angle: 30°



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
CL10W2C	InGaN	White	Water Clear	30°



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**ABSOLUTE MAXIMUM RATINGS**
**(TA=25°C)**

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	120	mW
Pulse Current Forward Current	IFP	100	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			

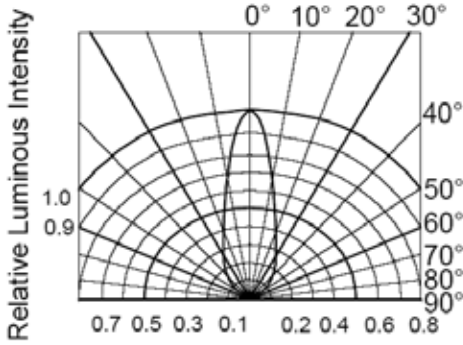
**OPTICAL-ELECTRICAL CHARACTERISTICS**
**(TA=25°C)**

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	Iv	IF = 20mA	2500	3500	-	mcd
Forward Voltage	VF	IF = 20mA	-	3.5	4.0	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	µA
Viewing Angle	2θ1/2	IF = 20mA	-	30	-	deg
Chromaticity Coordinate	x	IF = 20mA	-	0.31	-	-
	y			0.32		

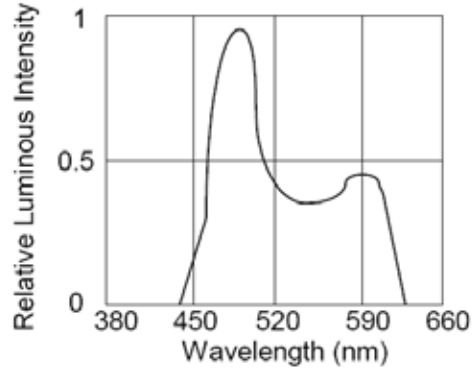
\*Tolerance of viewing angle: -10 / +5 deg.


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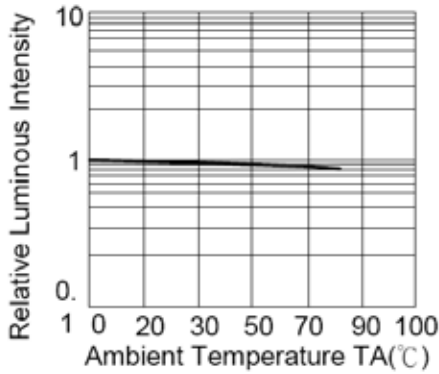
## OPTICAL CHARACTERISTIC CURVES



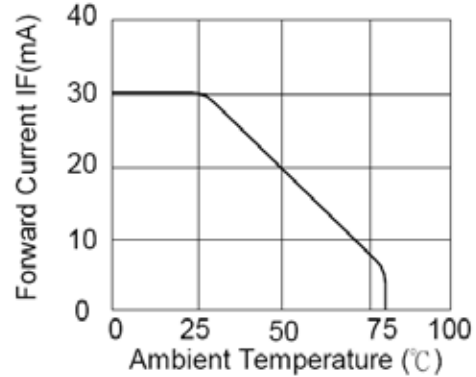
**RADIATION DIAGRAM**



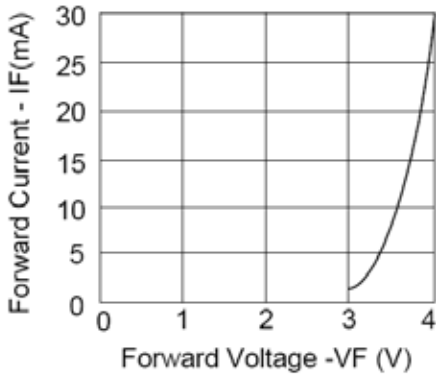
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



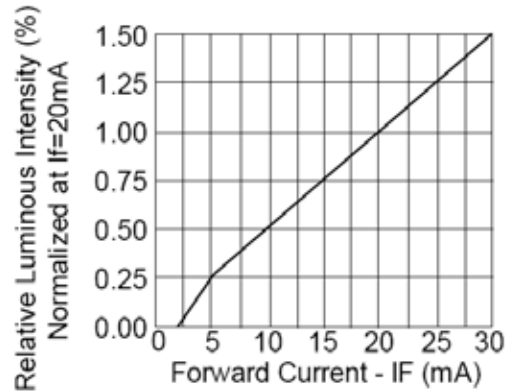
**LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**



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