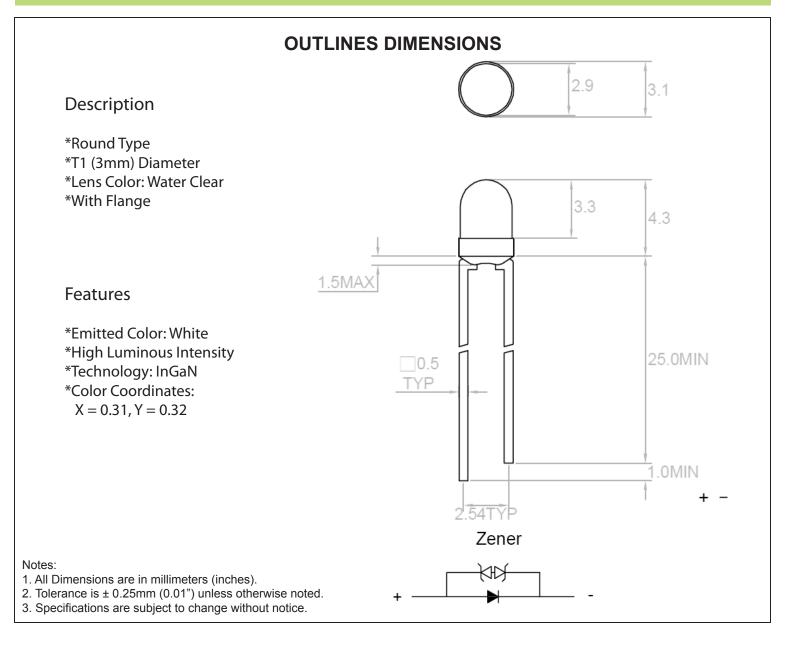


#### SPECIFICATIONS

# CL28W3CZ



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CL28W3CZ	InGaN/GaN	White	Water Clear	40°



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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	lf	30	mA		
Reverse Voltage	VR	5	V		
Operating Temperature Range	Topr	-20~+80	°C		
Storage Temperature Range	Тѕтс	-30~+100	°C		
IFP = Pulse Width $\leq$ 10 ms, Duty Ratio $\leq$ 1/10. Soldering Condition: 260 °C/ 5sec					

## **OPTICAL-ELECTRICAL CHARACTERISTICS**

Value **Test Condition** Parameter Symbol Unit Min Тур Max 3400 6200 Luminous Intensity I<sub>F</sub> = 20mA \_ Iv mcd Forward Voltage I⊧ = 20mA 3.5 4.0 V VF \_ 50 **Reverse Leakage Current**  $V_R = 5V$ \_ IR \_ μA 40 **Viewing Angle**  $2\theta 1/2$ I<sub>F</sub> = 20mA \_ deg \_ **Chromaticity Coordinates** I⊧ = 20mA Х 0.31 \_ \_ -**Chromaticity Coordinates** Y I<sub>F</sub> = 20mA 0.32 \_ \_ -

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



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## (TA=25°C)



## **OPTICAL CHARACTERISTIC CURVES**

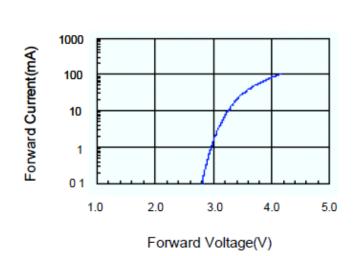


Fig.1 Forward current vs. Forward Voltage

## Fig.2 Relative Intensity vs. Forward Current

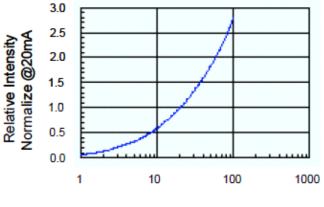




Fig.4 Relative Intensity vs. Temperature

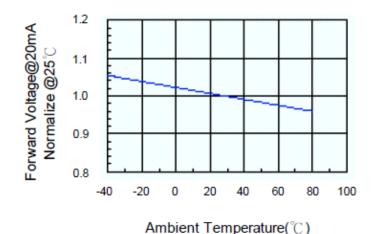
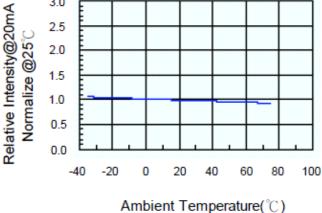


Fig.3 Forward Voltage vs. Temperature

3.0 2.5





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## SOLDERING CONDITIONS – LAMP TYPE LED

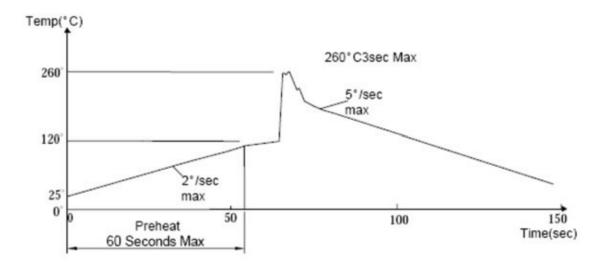
### **SOLDERING CONDITION (Pb-Free)**

#### 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)



Note: 1. Wave solder should not be made more than one time.

2. You can only select one of the soldering conditions above.

RoHS Compliant Chr orde Compliant Orde

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