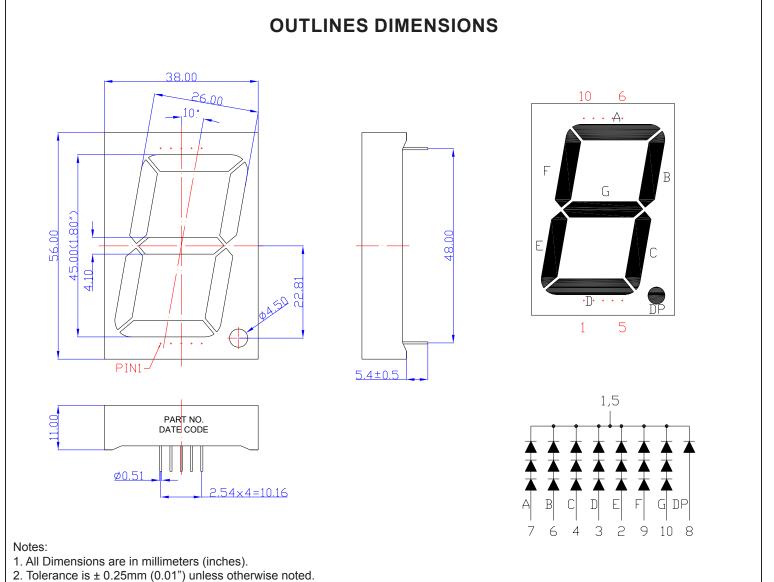


### SPECIFICATIONS

# CDSC18W2W



3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Description	
CDSC18W2W	InGaN	White	White Segment	Common Cathode	



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	PD	78	mW			
Pulse Forward Current	lfp	60	mA			
Continuous Forward Current	lF	20	mA			
Reverse Voltage Segment	VR	5	V			
Operating Temperature Range	Topr	-25~+85	°C			
Storage Temperature Range	Тѕтс	-25~+85	°C			
IFP = Pulse Width $\leq$ 10 ms, Duty Ratio $\leq$ 1/10. Soldering Condition: 260 °C/ 5sec						

## **OPTICAL-ELECTRICAL CHARACTERISTICS**

(TA=25°C)

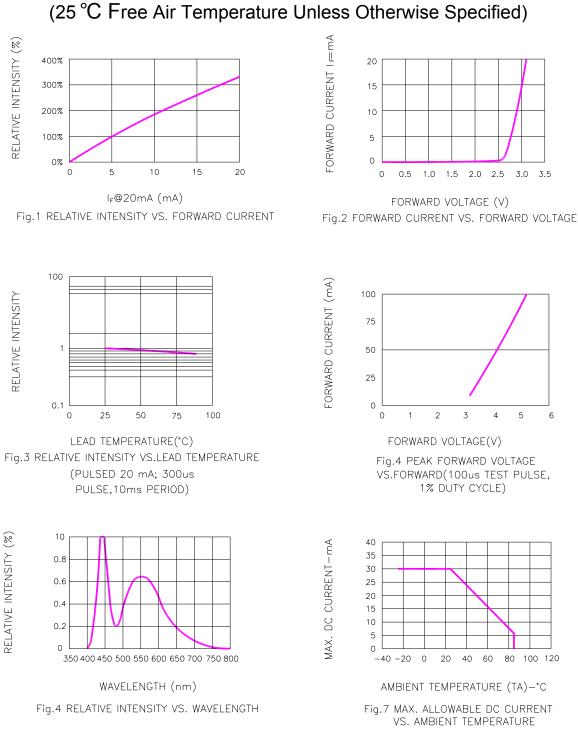
Parameter	Symbol	Test Condition	Value			Unit
			Min	Тур	Max	Unit
Luminous Intensity per segment	١v	l⊧ = 5mA	-	180	-	mcd
Forward Voltage per segment	Vf	I⊧ = 5mA	-	8.7	-	V
Reverse Leakage Current	lr	V <sub>R</sub> = 5V	-	-	10	μA
Chromaticity Coordinates	Х	l⊧ = 5mA	-	0.285	-	-
Chromaticity Coordinates	λD	l⊧ = 5mA	-	0.275	-	-
Spectral Radiation Bandwidth	Δλ	l⊧ = 5mA	-	30	-	nm



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## **OPTICAL CHARACTERISTIC CURVES**



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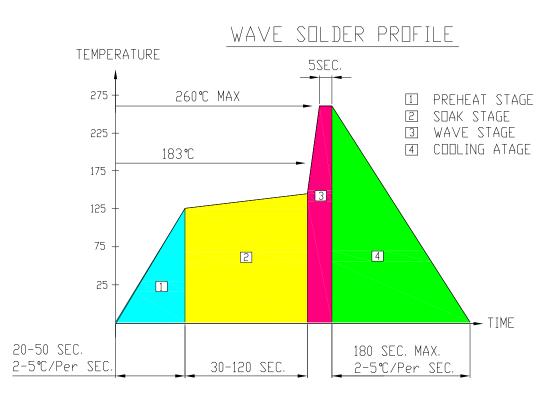
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#### SOLDERING CONDITIONS – DISPLAY TYPE LED

# • RECOMMEND SOLDERING PROFILE



#### Note:

- Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- Peak wave soldering temperature between 245°C ~ 225°C for 3 sec (5 sec max)
- No more than one wave soldering pass

## SOLDERING IRON

Basic spec is ≦4 sec when 260°C. If temperature is higher, time should

be shorter (+10°C $\rightarrow$ 1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

### REWORK

Customer must finish rework within ≦3 sec under 350°C. The head of soldering iron cannot touch copper foil.



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