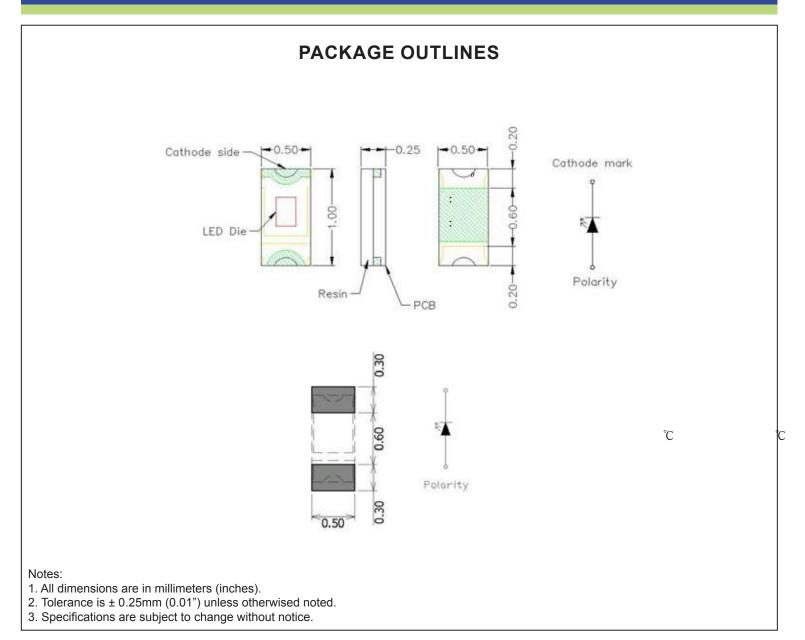


# SPECIFICATION CS42EGT2C



Part Number	℃ Chip Material	°C Color of Emission	Lens Type	Viewing Angle
CS42EGT2C	InGaN	Green	Water Clear	130°



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	
Forward Current	lF	20	mA	
Reverse Current @ 5V	lR	10	μΑ	
Power Dissipation	Pd	80	mW	
Operating Temperature Range	Тор	-40~+85	°C	
Storage Temperature Range	Тѕтс	-40~+100	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	lFP	30	mA	
Soldering Temperature	TsoL	Max 260°C for	260°C for 10 sec Max	

# **OPTICAL-ELECTRICAL CHARACTERISTICS**

(TA=25°C)

Darameter	Symbol	Test Condition	Value			Lloit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 5mA	1	200	-	mcd
Forward Voltage	VF	IF = 5mA	1	3.0	3.25	V
Reverse Leakage Current	lR	VR = 5V	-	10	-	μΑ
Viewing Angle at 50% Iv	201/2	IF = 5mA	-	130	-	Deg
Peak Wavelength	λР	IF = 5mA	ı	520	ı	nm
Dominant Wavelength	λD	IF = 5mA	-	525	-	nm

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



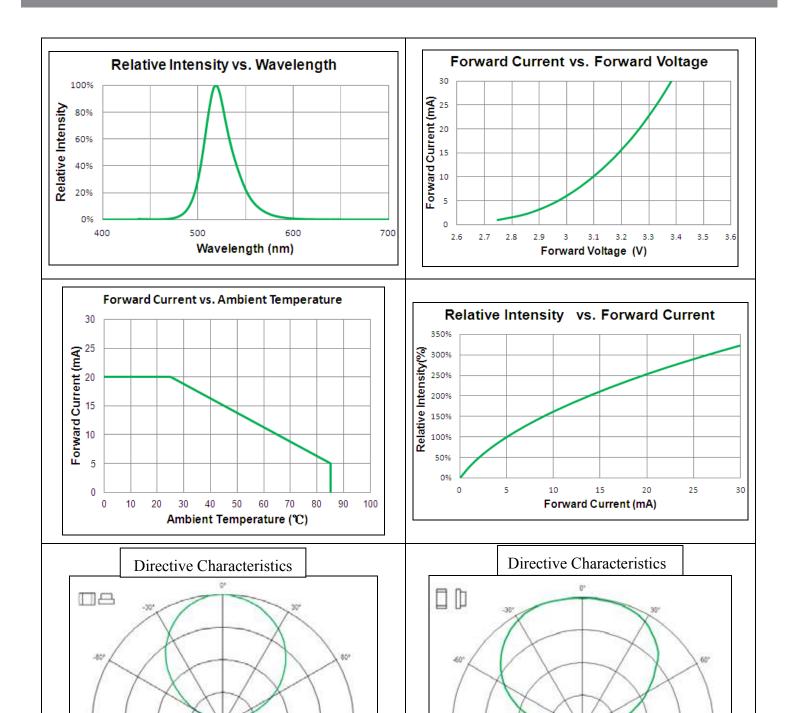
ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com



100%

50%

### **OPTICAL CHARACTERISTIC CURVES**





100%

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

100%

901

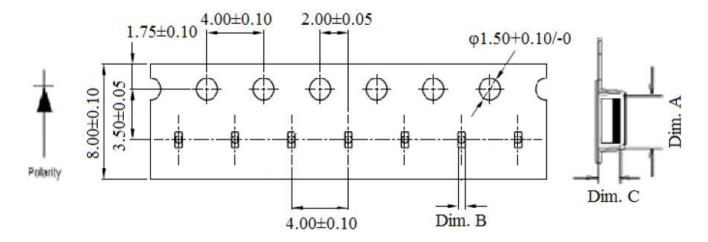
100%

50%



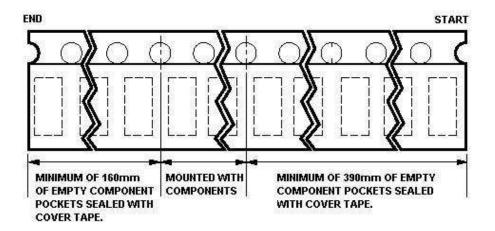
# **PACKAGING SPECIFICATION**

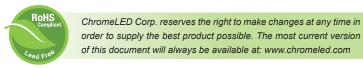
#### **Tape Dimension**



Dim. A	Dim. B	Dim. C	Q'ty/Reel
1.11±0.03	0.60±0.03	0.38±0.03	3K

Unit: mm







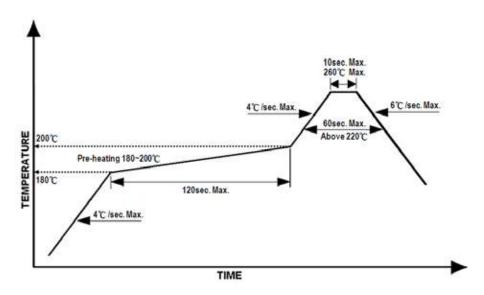
### **SOLDERING CONDITIONS**

#### **Reflow Soldering**

Recommend soldering paste specifications:

- 1. Operating temp.: Above 220°C ,60 sec.
- 2. Peak temp.:260°C Max.,10sec Max.
- 3. Reflow soldering should not be done more than two times.
- Never attempt next process until the component is cooled down to room temperature after reflow.
- 5. The recommended reflow soldering profile (measured on the surface of the LED terminal) is as following:

Lead-free Solder Profile



#### Reworking

- Rework should be completed within 5 seconds under 260°C.
- The iron tip must not come in contact with the copper foil.
- Twin-head type is preferred.

#### Cleaning

Following are cleaning procedures after soldering:

- An alcohol-based solvent such as isopropyl alcohol (IPA) is recommended.
- Temperature x Time should be 50°C x 30sec. or <30°C x 3min
- Ultrasonic cleaning: < 15W/ bath; bath volume ≤ 1liter</li>
- Curing: 100 °C max, <3min</li>



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