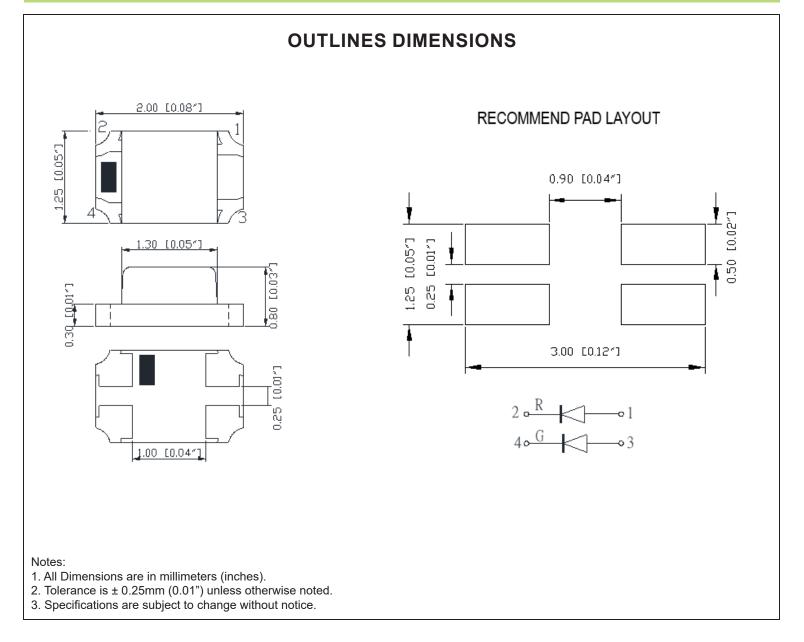


### SPECIFICATIONS

# CSB85BR2GT2C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSB85BR2GT2C	InGaAIP/InGaN	Red/Green	Water Clear	140°



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#### **ABSOLUTE MAXIMUM RATINGS**

Parameter	Symbol	Color Max Rating		Unit			
Power Dissipation	PD	Red	75	mW			
		Green	111				
Pulse Current Forward Current	    FP	Red	125	mA			
	IFP	Green	125				
Continuous Forward Current	l IF	Red	30	mA			
Continuous Forward Current		Green		ША			
Reverse Voltage	VR	5		V			
Operating Temperature Range	Topr	-40~+80		°C			
Storage Temperature Range	Тѕтс	-40~+85		°C			
IFP = Pulse Width $\leq$ 10 ms, Duty Ratio $\leq$ 1/10. Soldering Condition: 260 °C/ 5sec							

#### **OPTICAL-ELECTRICAL CHARACTERISTICS**

(TA=25°C)

Deremeter	Symbol	Test Condi- tion	Color	Value			L lus it
Parameter				Min	Тур	Max	Unit
Luminous Intensity	lv	I⊧ = 20mA	Red	63	200	-	mcd
Luminous Intensity			Green	250	400	-	
Forward Voltage	VF	I⊧ = 20mA	Red	-	2.0	2.5	V
Forward Voltage			Green	-	3.1	3.7	
Boverse Lookage Current	In	V <sub>R</sub> = 5V	Red	-	-	10	μA
Reverse Leakage Current	IR		Green	-	-	10	
	201/2	I⊧ = 20mA	Red	-	140	-	deg
Viewing Angle	201/2		Green	-	140	-	
Book Woyalapath	λp	I⊧ = 20mA	Red	-	640	-	nm
Peak Wavelength			Green	-	515	-	
Dominant Wayalangth	gth λD	I⊧ = 20mA	Red	625	630	635	nm
Dominant Wavelength			Green	515	520	525	

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



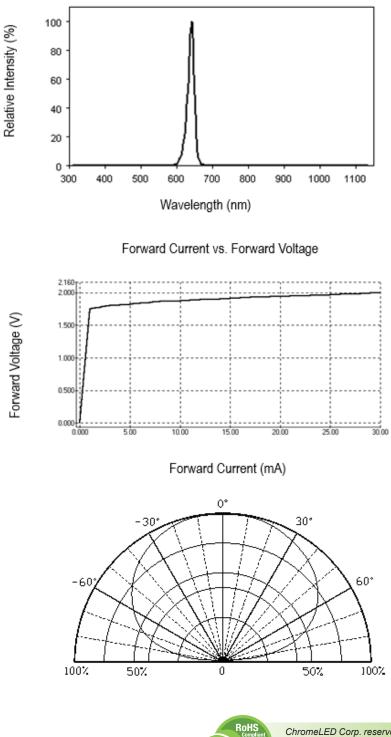
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(TA=25°C



## **OPTICAL CHARACTERISTIC CURVES (RED)**

Relative Intensity vs. Wavelength



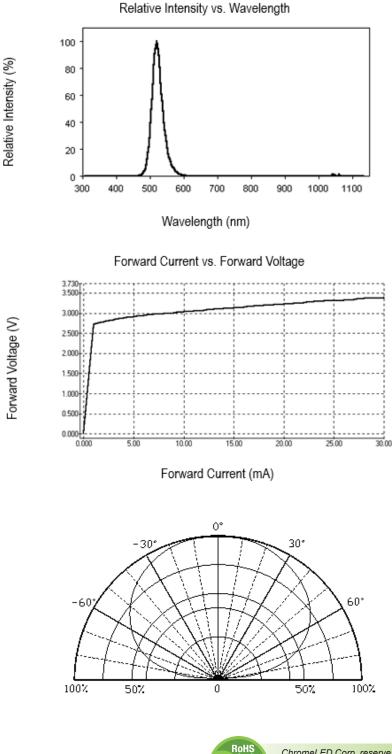
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Lead Fre

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# **OPTICAL CHARACTERISTIC CURVES (GREEN)**



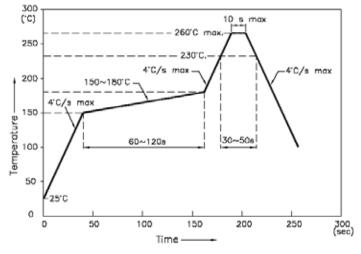
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#### SOLDERING CONDITIONS – LAMP TYPE LED

#### **REFLOW PROFILE**

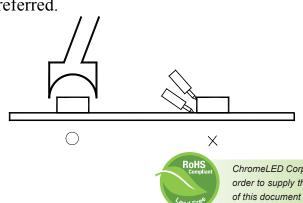


#### NOTES:

- 1. We recommend the reflow temperature 245°C (±5°C). The maximum soldering temperature should be limited to 260°C.
- 2. Do not cause stress to the epoxy resin while it is exposed to high temperature.
- 3. Number of reflow process shall be 2 times or less.
  - Soldering iron
  - Basic spec is  $\leq$  5sec when 260°C. If temperature is higher, time should be shorter
  - (+10°C → -1sec). Power dissipation of iron should be smaller than 20W, and temperatures should be controllable .Surface temperature of the device should be under 230°C.

Rework

- 1. Customer must finish rework within 5 sec under 260°C.
- 2. The head of iron cannot touch copper foil
- 3. Twin-head type is preferred.

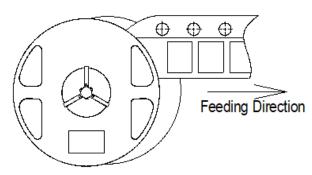


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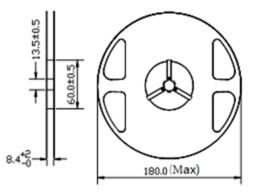


#### PACKAGING SPECIFICATIONS

• Feeding Direction

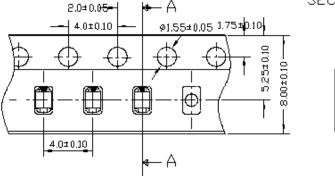


Dimensions of Reel (Unit: mm)

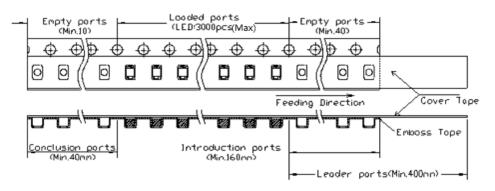


Dimensions of Tape (Unit: mm)





• Arrangement of Tape



#### Notes:

- 1. Empty component pockets are sealed with top cover tape
- 2. The maximum number of missing lamps is two
- 3. The cathode is oriented towards the tape sprocket hole
- 4. 3,000(Max) pcs/Reel



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