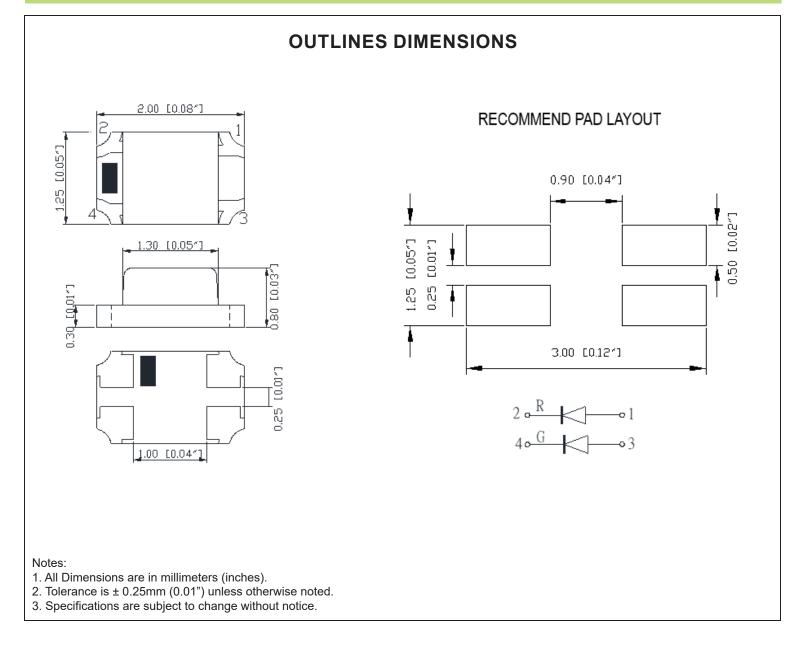


SPECIFICATIONS

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		
Rower Dissipation	PD	Red	75	mW		
Power Dissipation		Green	111	IIIVV		
Pulse Current Forward Current	 FP	Red	125	mA		
		Green	125	ША		
Continuous Forward Current	lF	Red	30	mA		
		Green		ША		
Reverse Voltage	VR	5		V		
Operating Temperature Range	Topr	-40~+80		°C		
Storage Temperature Range	Тѕтс	-40~+85		°C		

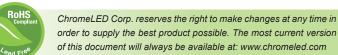
IFP = Pulse Width \leq 10 ms, Duty Ratio \leq 1/10. Soldering Condition: 260 °C/ 5sec

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

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Deremeter	Symbol	Test Condi- tion	Color	Value			Linit
Parameter				Min	Тур	Max	Unit
Luminous Intensity	lv	l⊧ = 20mA	Red	63	200	-	mcd
Luminous Intensity			Green	250	400	-	
Forward Voltage	VF	l⊧ = 20mA	Red	-	2.0	2.5	V
Forward Voltage			Green	-	3.1	3.7	
Boverse Leekage Current	lR	V _R = 5V	Red	-	-	10	μA
Reverse Leakage Current			Green	-	-	10	
Viewing Angle	201/2	I⊧ = 20mA	Red	-	140	-	deg
			Green	-	140	-	
Book Wayalangth	λP	I⊧ = 20mA	Red	-	640	-	nm
Peak Wavelength			Green	-	515	-	
Dominant Wayalangth	λD	I⊧ = 20mA	Red	625	630	635	nm
Dominant Wavelength			Green	515	520	525	
*Tolerance of viewing angle: -10 / +5 deg.							



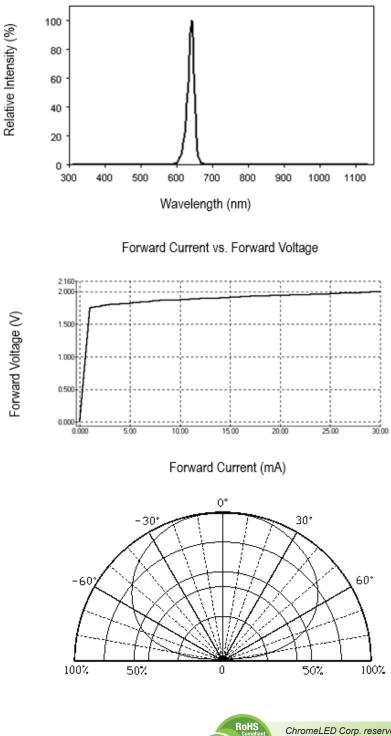
2

(TA=25°C



OPTICAL CHARACTERISTIC CURVES (RED)

Relative Intensity vs. Wavelength

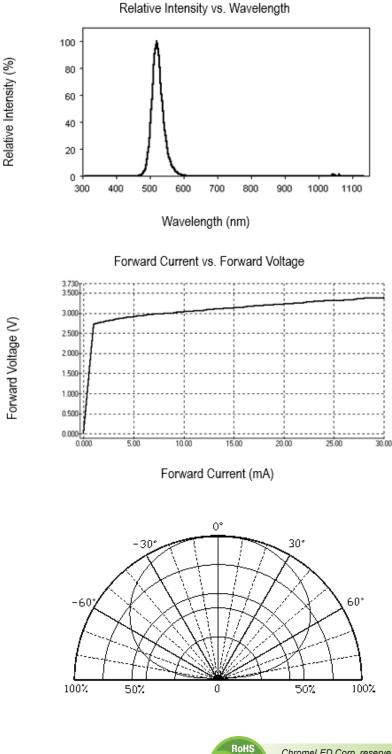


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Lead Fre



OPTICAL CHARACTERISTIC CURVES (GREEN)



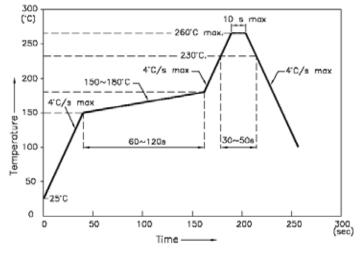
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Lead Fre



SOLDERING CONDITIONS – LAMP TYPE LED

REFLOW PROFILE

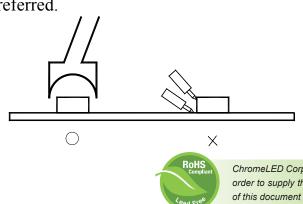


NOTES:

- 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.

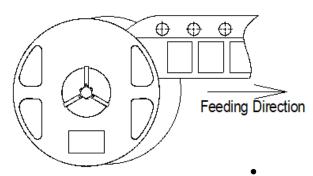


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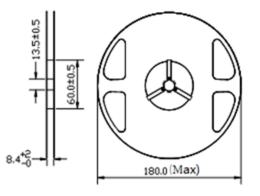


PACKAGING SPECIFICATIONS

• Feeding Direction

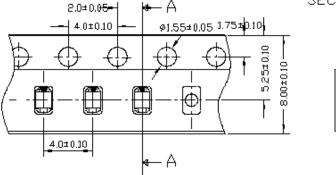


Dimensions of Reel (Unit: mm)

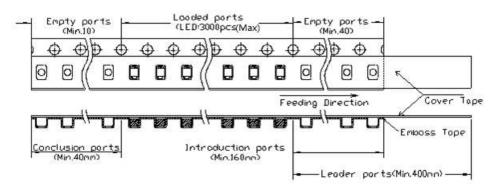


Dimensions of Tape (Unit: mm)





• 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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