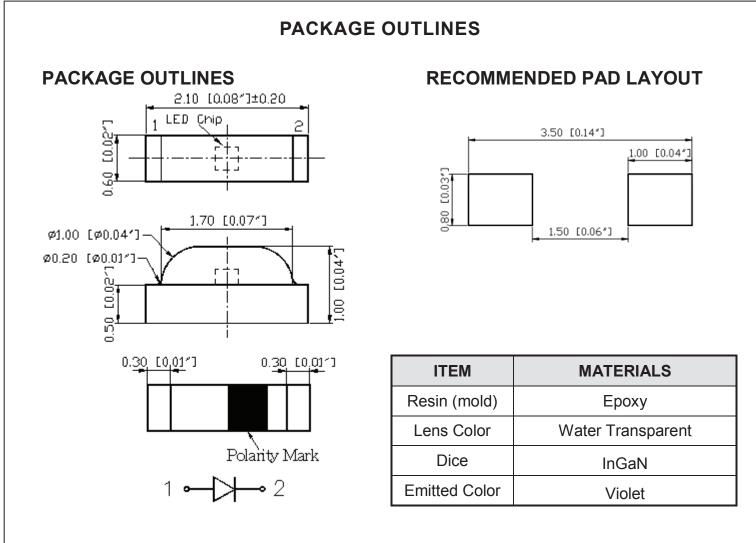


### SPECIFICATION



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm$  0.25mm (0.01") unless otherwised noted.

3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	color of Emission Lens Type	
CSR84V2C	InGaN	Violet	Water Clear	150°



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CSR84V2C



# **ABSOLUTE MAXIMUM RATINGS**

#### (TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Forward Current	lF	30	mA	
Reverse Current @ 5V	lR	10	μA	
Power Dissipation	Pd	111	mW	
Operating Temperature Range	Тор	-40~+80	°C	
Storage Temperature Range	Тѕтс	-40~+85	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	lfp	125	mA	
Soldering Temperature	TSOL	Max 260°C for 5 sec Max		

# OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Deremeter	Symbol	Test Condition	Value			Upit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	١v	IF = 20mA	1.6	3.0	-	mcd
Forward Voltage	Vf	IF = 20mA	-	3.1	3.7	V
Reverse Leakage Current	lr	VR = 5V	-	-	10	μA
Viewing Angle at 50% Iv	201/2	IF = 20mA	-	150	-	Deg
Peak Wavelength	λP	IF = 20mA	-	405	-	nm
Dominant Wavelength	λD	IF = 20mA	-	425	-	nm

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

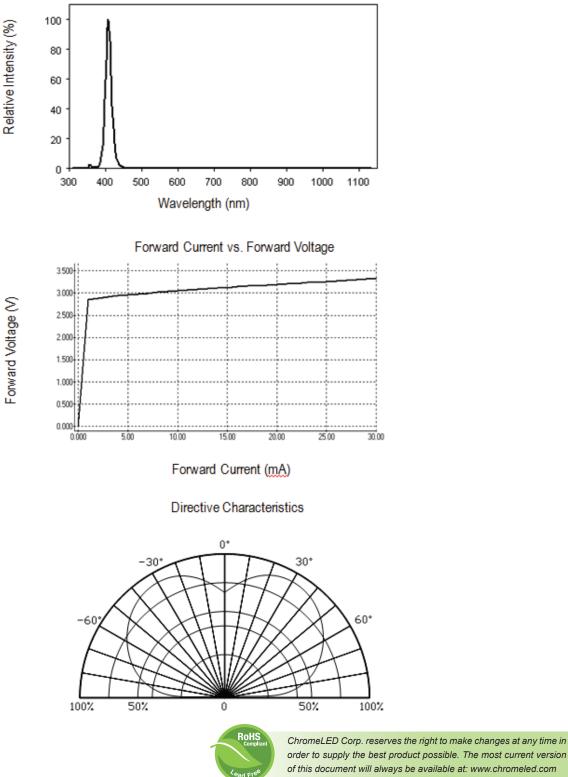


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# **OPTICAL CHARACTERISTIC CURVES**

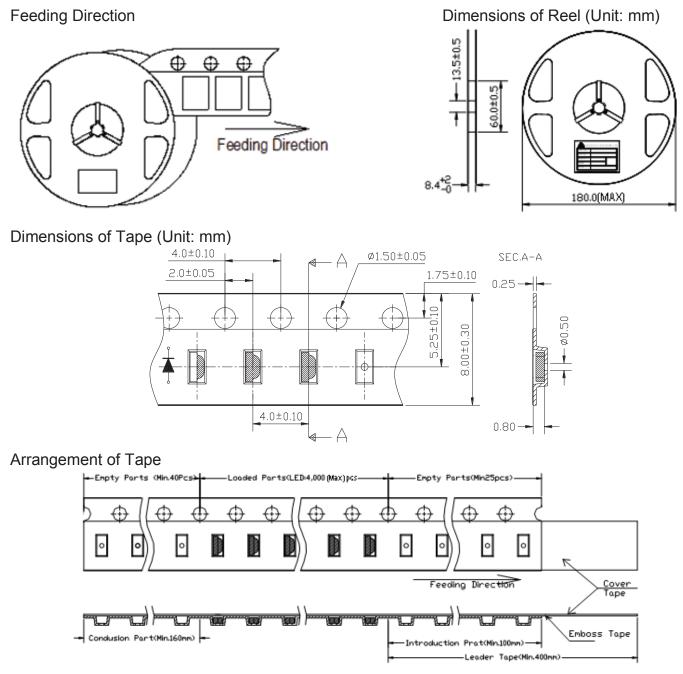
Relative Intensity vs. Wavelength



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# PACKAGING SPECIFICATION



#### Notes:

- 1. Empty component pockets are sealed with top cover tape.
- 2. The maximum number of missing lamp is two.
- 3. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/EIA RS-481 specifications.
- 4. 4,000 (Max) pcs/Reel

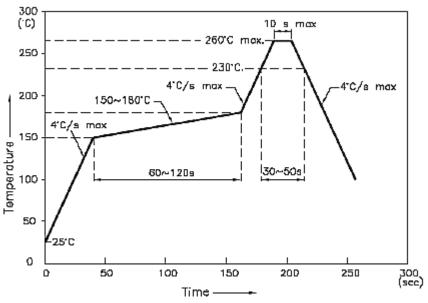


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### SOLDERING CONDITIONS

#### **REFLOW PROFILE**

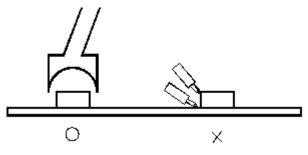


Notes:

- 1. We recommend the reflow temperature 245°C (±5°C). The maximum soldering temperature should be limited to 260°C.
- 2. Don't 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  $\rightarrow$  -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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