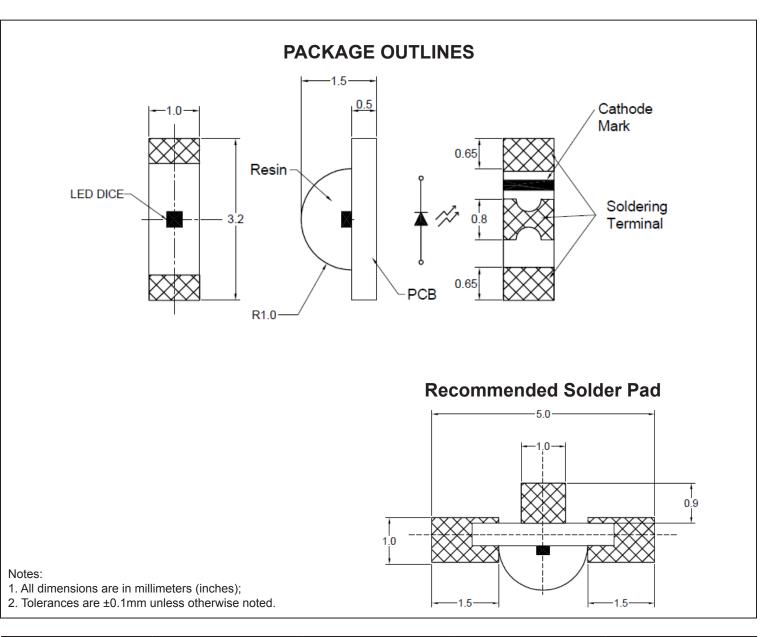


#### **SPECIFICATIONS**



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSR125B1C	InGaN	Blue	Water Clear	130°



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**CSR125B1C** 



## **ABSOLUTE MAXIMUM RATINGS**

Parameter	Symbol	Value	Unit	
Forward current	lf	20	mA	
Reverse current @ 5V	lr	50	μA	
Power dissipation	Pd	80	mW	
Operating temperature range	Тор	-40~+85	°C	
Storage temperature range	Tstg	-40~+90	°C	
Peak pulsing current (1/10 duty f= 10KHz)	lfp	100	mA	
Soldering Temperature	T <sub>SOL</sub>	Max 260°C for 5 sec Max		

# **OPTICAL-ELECTRICAL CHARACTERISTICS**

	Symbol	Test Condition	Value			
Parameter			Min	Тур	Max	Unit
Wavelength at peak emission	λpeak	I <sub>F</sub> = 20mA	-	465	-	nm
Spectral half bandwidth	Δλ	I <sub>F</sub> = 20mA	-	30	-	nm
Dominant wavelength	λdom	I <sub>F</sub> = 20mA	-	470	-	Nm
Forward Voltage	Vf	I <sub>F</sub> = 20mA	-	3.5	4.0	V
Luminous intensity	lv	I <sub>F</sub> = 20mA	32	60	-	mcd
Viewing angle at 50% lv	20 1⁄2	I <sub>F</sub> = 20mA	-	130	-	Deg

\*NOTE: 1. The forward voltage data did not including ±0.1V tolerance 2. The luminous intensity data did not including ±15% tolerance



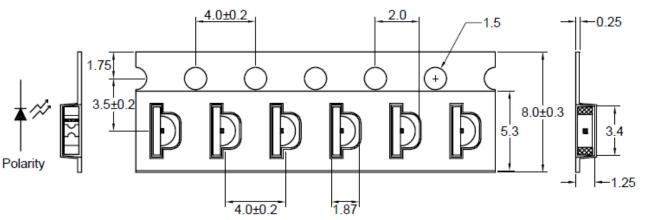
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#### (TA=25°C)

(TA=25°C)



## **DIMENSIONS OF TAPE (Unit: mm)**

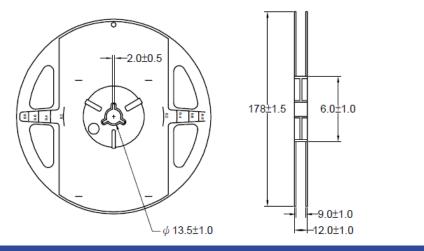


NOTE: The tolerances unless mentioned is  $\pm 0.1$ mm, Angle  $\pm 0.5$ . Unit = mm.

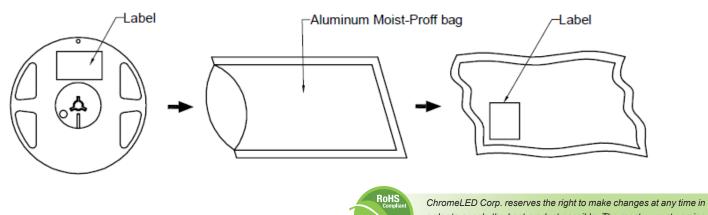
NOTES:

4. 3,000pcs/Reel

## **REEL DIMENSIONS**



#### PACKAGING SPECIFICATION



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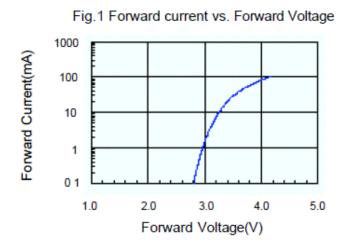
1. Empty component pockets are sealed with top cover tape;

3. The cathode is oriented towards the tape sprocket hole.

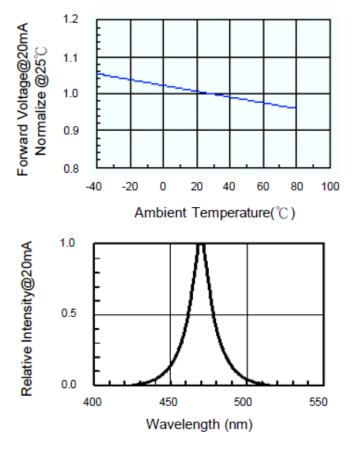
2. The maximum number of missing lamps is two;



## **OPTICAL CHARACTERISTIC CURVES**



#### Fig.3 Forward Voltage vs. Temperature





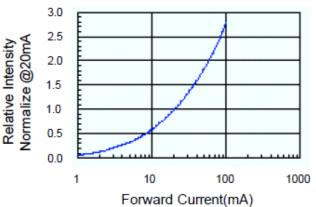
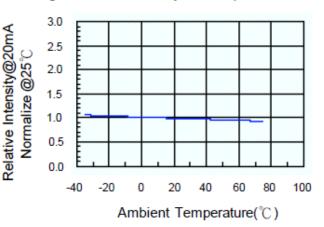
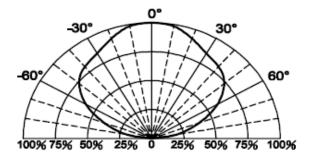


Fig.4 Relative Intensity vs. Temperature







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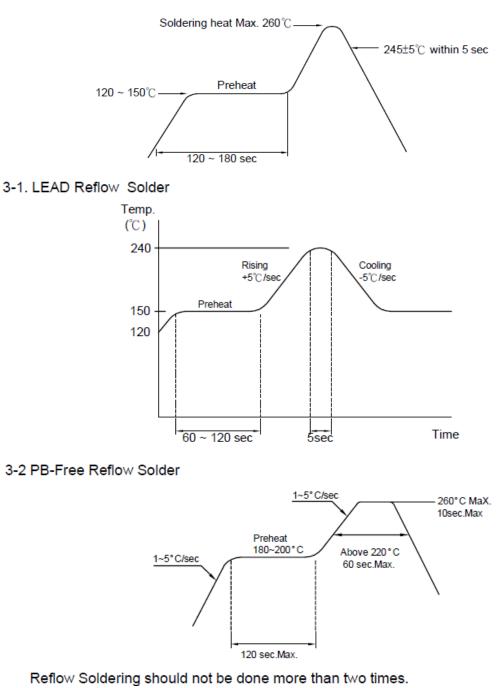


## **SOLDERING CONDITIONS – LAMP TYPE LED**

1. Hand Solder

Basic spec is  $\leq 280^{\circ}$ C 3 sec one time only.

2. Wave Solder





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