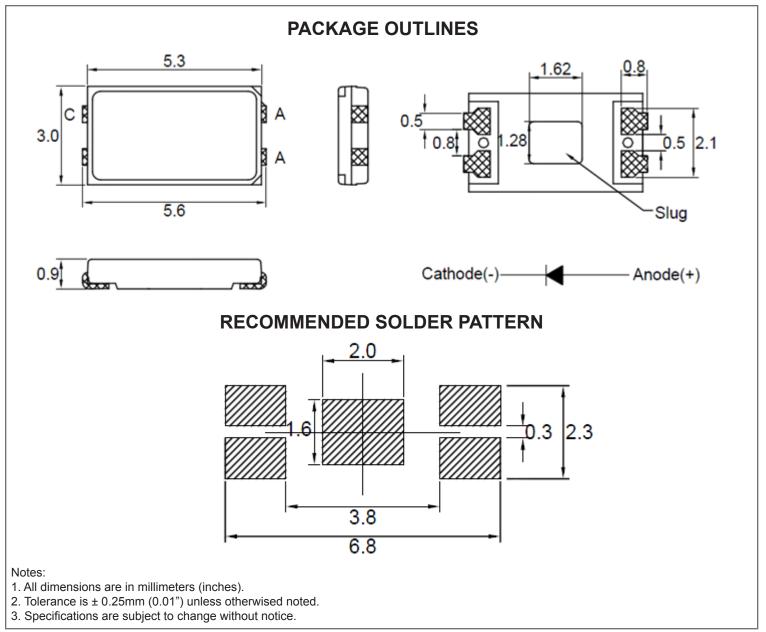


SPECIFICATION

CSH563R2C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSH563R2C	InGaAIP	Red	Water Clear	120°





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	lf	150	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	Тор	-40~+85	°C
Storage Temperature Range	Тѕтс	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	IFP	300	mA
Soldering Temperature	Tsol	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS

Value **Test Condition** Parameter Symbol Unit Min Тур Max Luminous Intensity Iv $I_{F} = 150 \text{mA}$ 5000 7000 _ mcd Forward Voltage IF = 150mA V VF 2.4 3.0 _ Reverse Leakage Current $V_R = 5V$ IR 10 _ _ μA Viewing Angle at 50% Iv $2\theta 1/2$ IF = 150mA 120 _ Deg _ **Dominant Wavelength** IF = 150mA 625 λD _ nm _ Spectral Line Half-Width Δλ IF = 150mA 15 _ _ nm

*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

(TA=25°C)



OPTICAL CHARACTERISTIC CURVES

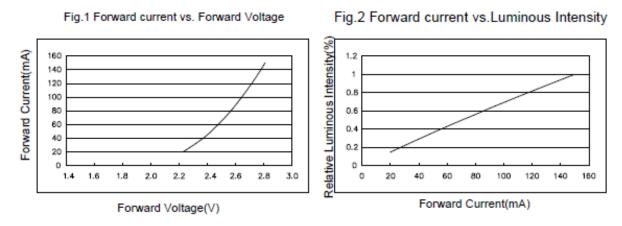
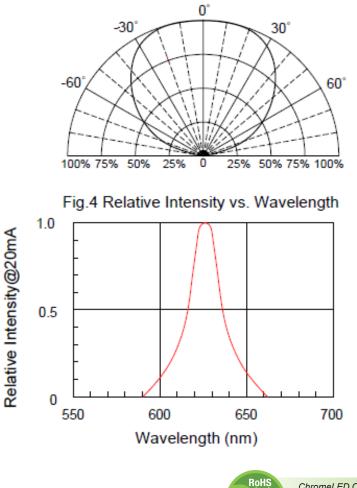


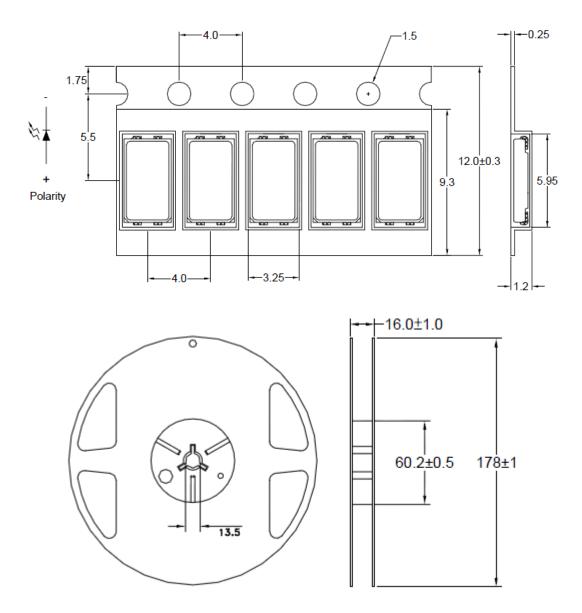
Fig.3 Directivity Radiation





PACKAGING SPECIFICATION

PACKAGING DIMENSION



Notes:

- 1. Tolerance unless mentioned is ±0.2mm, Unit=mm.
- 2. 2000pcs/Reel.



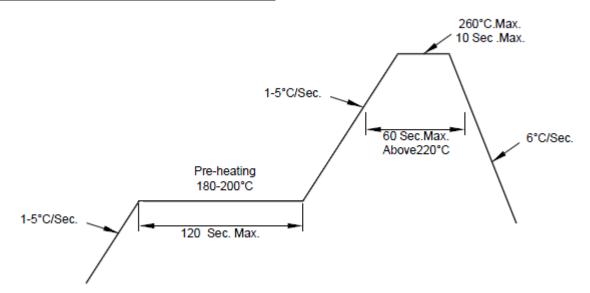


SOLDERING CONDITIONS

RECOMMENDED REFLOW SOLDERING PROFILE

Pb-Free soldering temperature profile

Pb -free solder Temperature profile		
Pre-heat	180-200°C	
Pre-heat time	120 Sec Max	
Peak-Temperature	260°C Max	
Soldering time condition	10 Sec Max	



- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on LEDs during heating.
- After soldering, do not warp the circuit board.
- The encapsulated material of the LEDs is silicone.
- Precautions should be taken to avoid strong pressure on the encapsulated part. So when using the chip mounter, the picking up nozzle that does not affect the silicone resin should be used.
- Hand soldering should not exceed 3 seconds at maximum 320°C under soldering iron (one time only).

