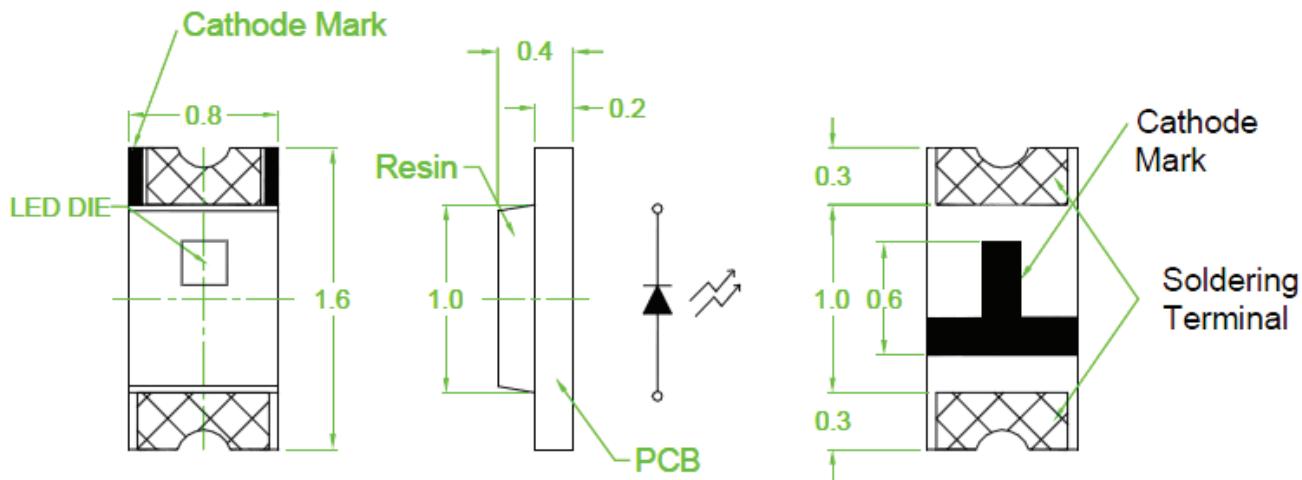


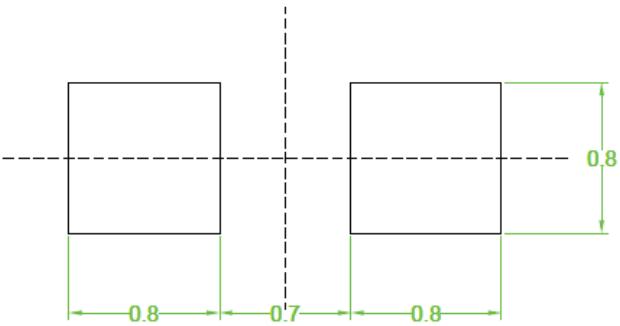
SPECIFICATIONS

CS63CGT1C

PACKAGE OUTLINES



Recommended Pad Layout



Notes:

1. All dimensions are in millimeters (inches);
2. Tolerances are $\pm 0.1\text{mm}$ unless otherwise noted.

Part Number	Chip Material	Color of Emission	Lens Type
CS63CGT1C	InGaN/GaN	Green	Water Clear



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Value	Unit
Forward current	I _f	20	mA
Reverse current @5V	I _r	50	µA
Power dissipation	P _d	80	mW
Peak forward current (1/10 @ 10kHz)	I _{fp}	100	mA
Electrostatic Discharge	ESD	150	V
Operating temperature range	T _{opr}	-40~+85	°C
Storage temperature range	T _{stg}	-40~+90	°C
Soldering Temperature	T _{sol}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

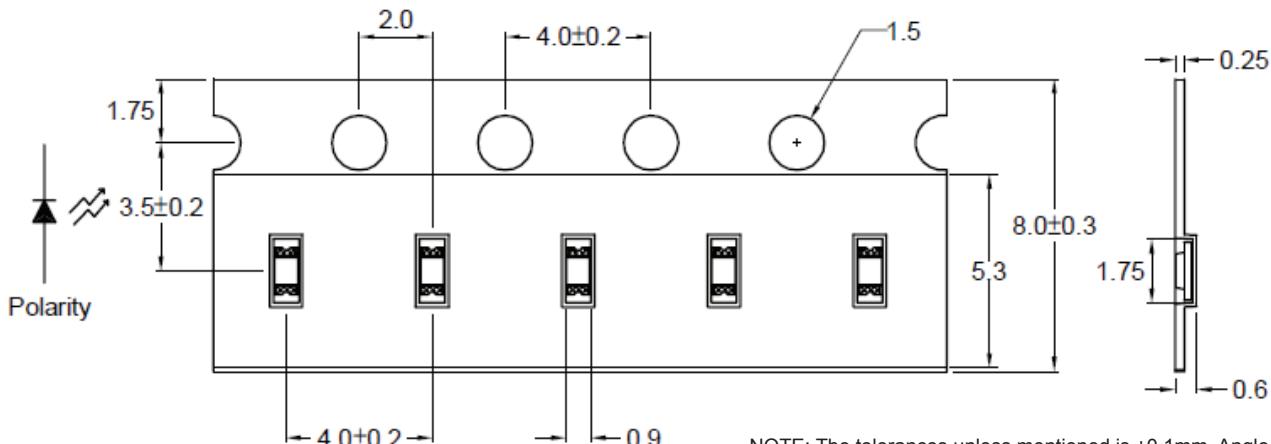
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Spectral half bandwidth	Δλ	I _F = 20mA	--	36	--	nm
Peak Wavelength	λ P	I _F = 20mA	--	518	--	nm
Dominant wavelength	λ D	I _F = 20mA	--	525	--	nm
Forward Voltage	V _f	I _F = 20mA	--	3.5	4.0	V
Luminous intensity	I _v	I _F = 20mA	200	500	800	mcd
Viewing angle at 50% I _v	2θ ½	I _F = 20mA	--	140	--	Deg

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



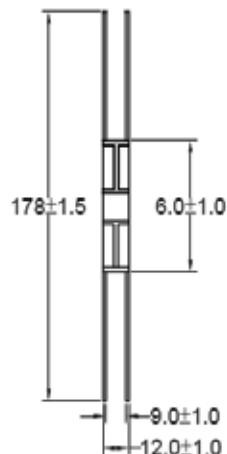
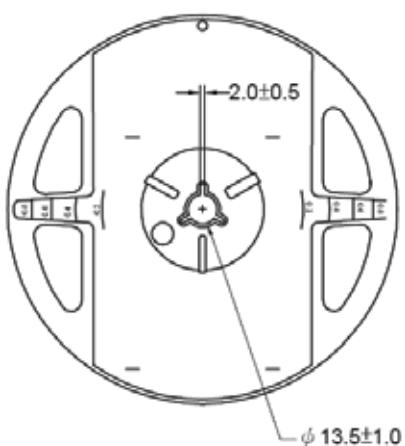
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DIMENSIONS OF TAPE (Unit: mm)



NOTE: The tolerances unless mentioned is ± 0.1 mm, Angle ± 0.5 . Unit = mm.

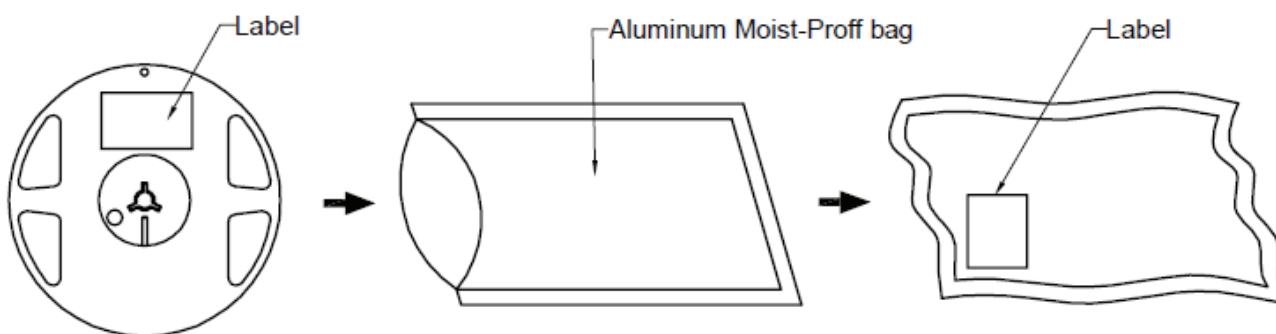
REEL DIMENSIONS



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. 4,000pcs/Reel

PACKAGING SPECIFICATION



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

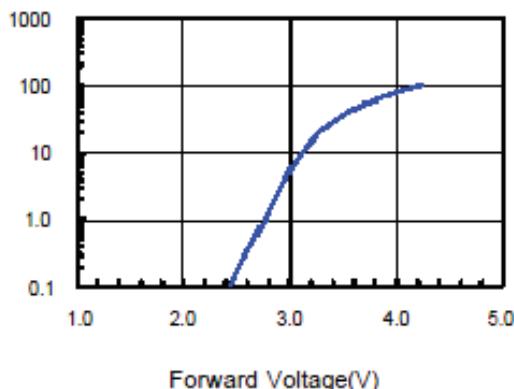


Fig.2 Relative Intensity vs. Forward Current

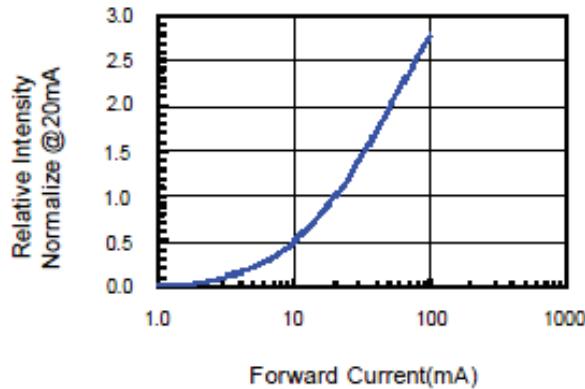


Fig.3 Forward Voltage vs. Temperature

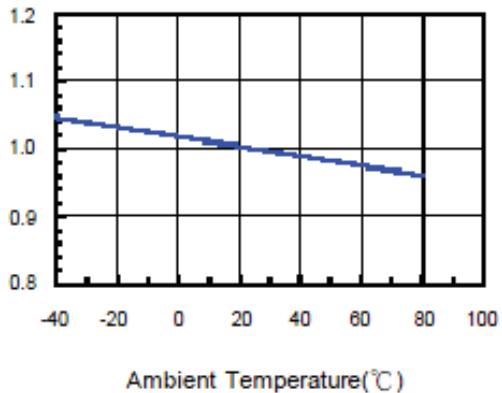


Fig.4 Relative Intensity vs. Temperature

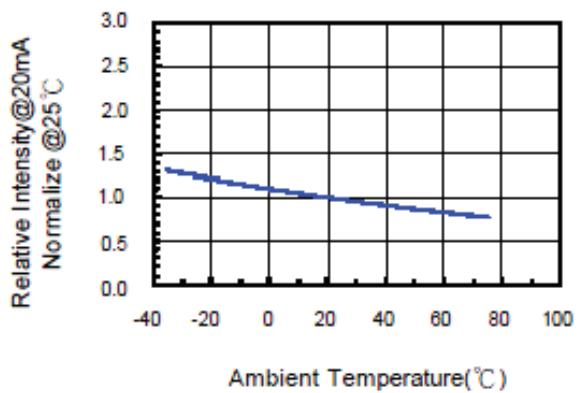


Fig.5 Relative Intensity vs. Wavelength

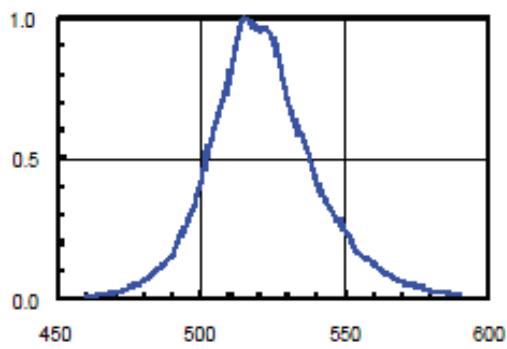
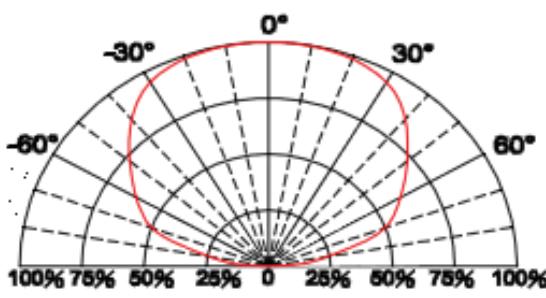


Fig.6 Directive Radiation



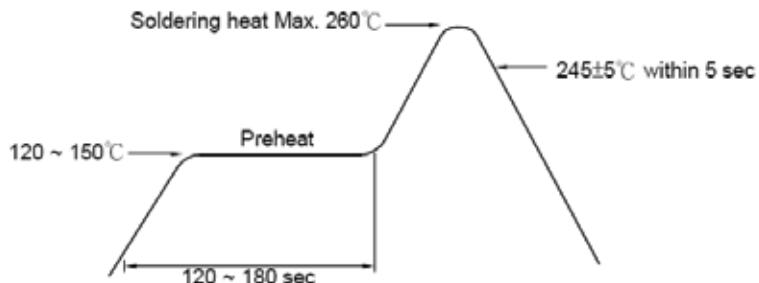
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SOLDERING CONDITIONS – LAMP TYPE LED

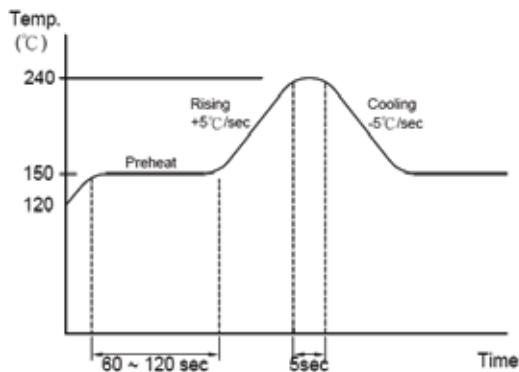
1. Hand Solder

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

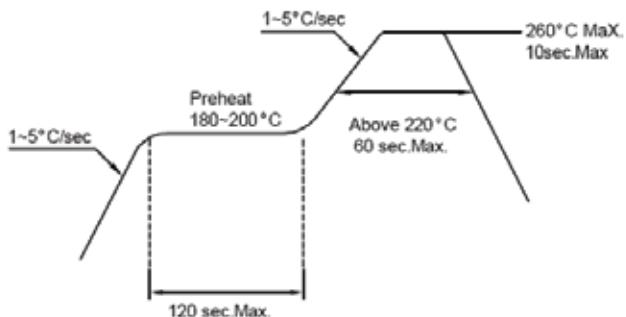
2. Wave Solder



3-1. LEAD Reflow Solder



3-2. PB-Free Reflow Solder



Notes:

1. Reflow soldering should not be done more than two times.
2. When soldering, do not put stress on the LEDs during heating.
3. After soldering, do not warp the circuit board.



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