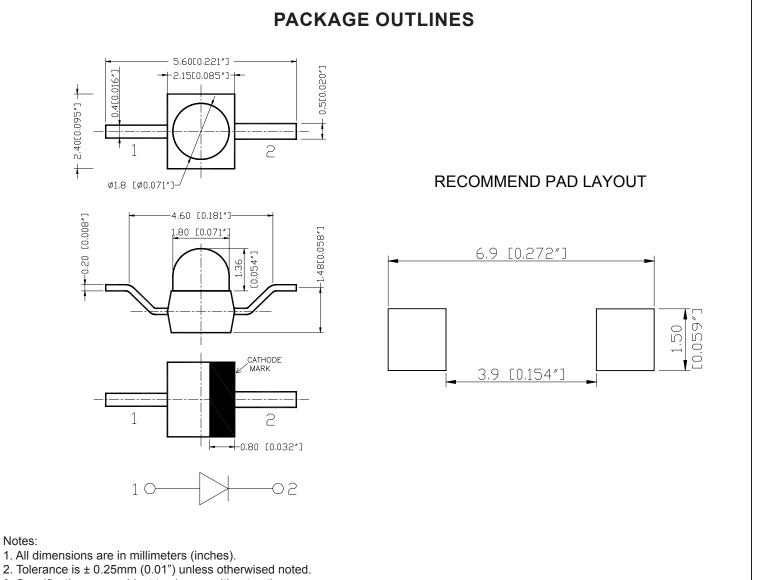


SPECIFICATION

-+ 2.40[0.095"] +-

Notes:

0.4[0.016"]



3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSM28A2CZ	InGaAIP	Amber	Water Clear	20°



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CSM28A2CZ



ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	lF	30	mA
Reverse Current @ 5V	lR	10	μΑ
Power Dissipation	Pd	75	mW
Operating Temperature Range	Тор	-40~+85	°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

Value Parameter Symbol **Test Condition** Unit Min Тур Max 2500 Luminous Intensity Iv IF = 20mA_ _ mcd Forward Voltage IF = 20mA2.0 2.5 V VF _ Reverse Leakage Current VR = 5VIR 10 _ _ μA Viewing Angle at 50% Iv $2\theta 1/2$ IF = 20mA20 _ Deg _ **Dominant Wavelength** IF = 20mA600 605 610 λD nm

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

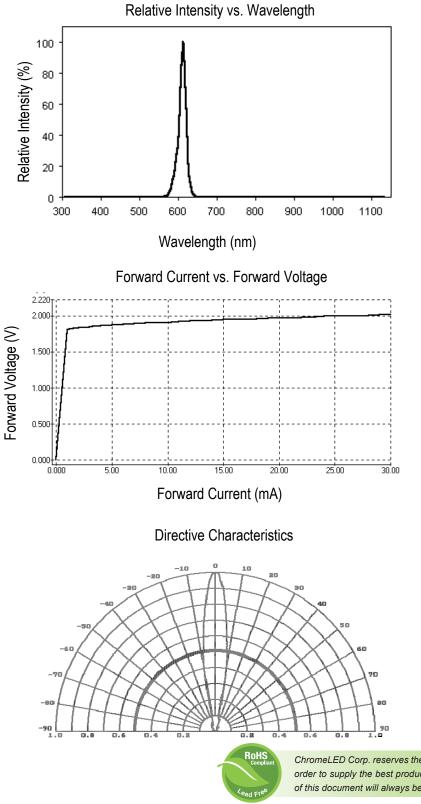


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(TA=25°C



OPTICAL CHARACTERISTIC CURVES

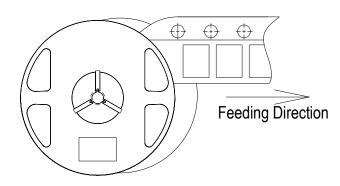


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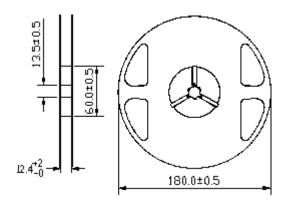


PACKAGING SPECIFICATION

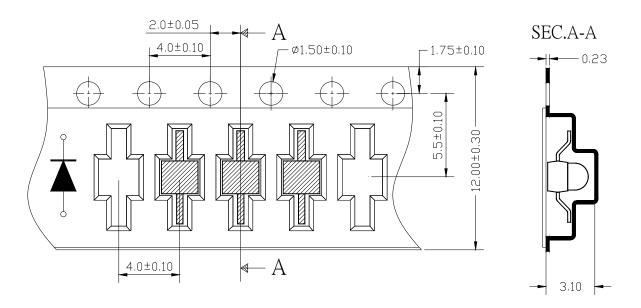
• Feeding Direction



• Dimensions of Reel (Unit: mm)



Dimensions of Tape (Unit: mm)



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. 1,000pcs/Reel

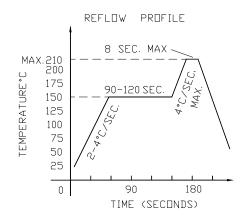


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SOLDERING CONDITIONS

REFLOW PROFILE

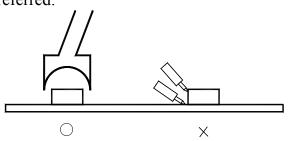


NOTES:

- 1. We recommend the reflow temperature 245°C (±5°C).the maximum soldering temperature should be limited to 260°C.
- 2. dont 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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