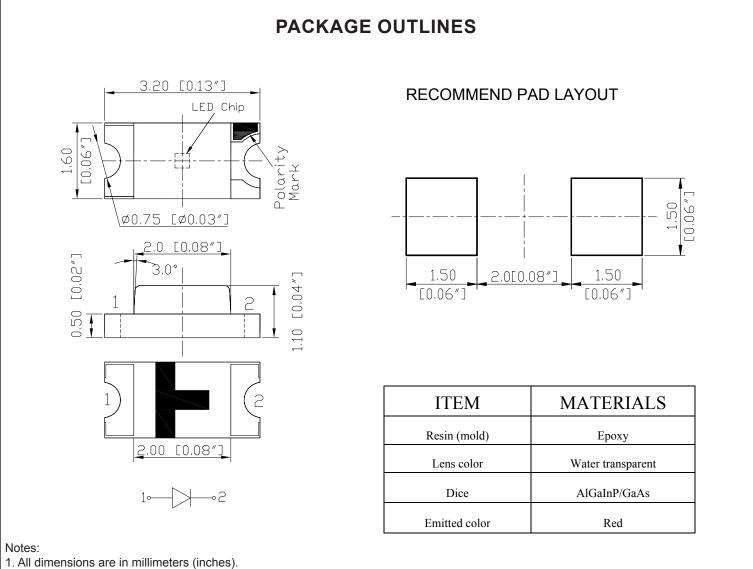


SPECIFICATION





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	
CS126AR3C-R	InGaAIP	Red	Water Clear	140°



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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	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

(TA=25°C)

Deremeter	Symbol	Test Condition	Value			Linit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	١v	IF = 20mA	50	90	160	mcd
Forward Voltage	Vf	IF = 20mA	1.7	2.0	2.5	V
Reverse Leakage Current	lr	VR = 5V	-	-	10	μA
Viewing Angle at 50% Iv	201/2	IF = 20mA	-	140	-	Deg
Peak Wavelength	λp	IF = 20mA	-	635	-	nm
Dominant Wavelength	λD	IF = 20mA	620	625	630	nm

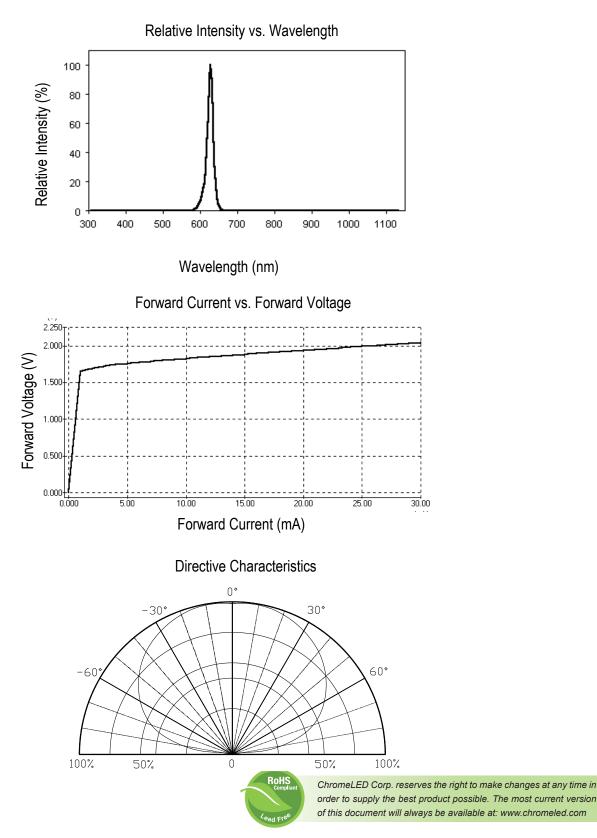
*Tolerance of viewing angle: -10 / +5 deg.



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OPTICAL CHARACTERISTIC CURVES



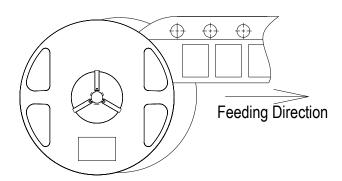
3

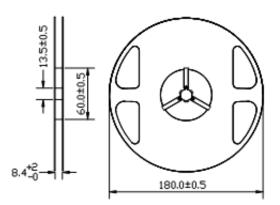


PACKAGING SPECIFICATION

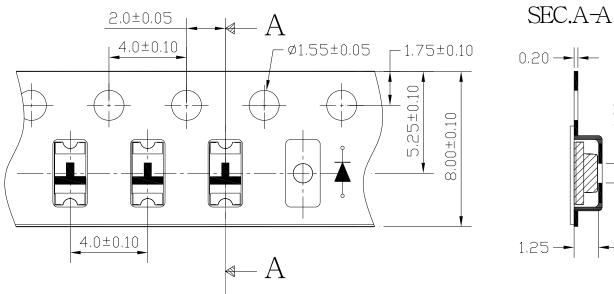
Feeding Direction

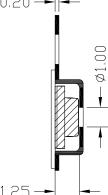
Dimensions of Reel (Unit: mm)





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. 3,000pcs/Reel

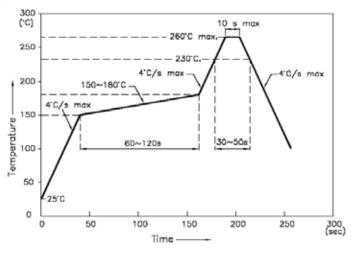


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SOLDERING CONDITIONS

REFLOW PROFILE

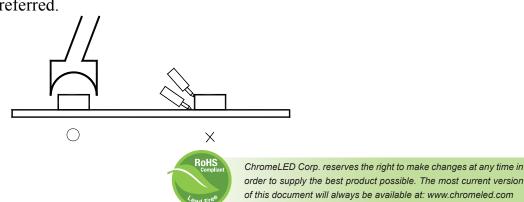


NOTES:

- 1. We recommend the reflow temperature 245°C (±5°C).the maximum soldering temperature should be limited to 260°C.
- 2. Do not 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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