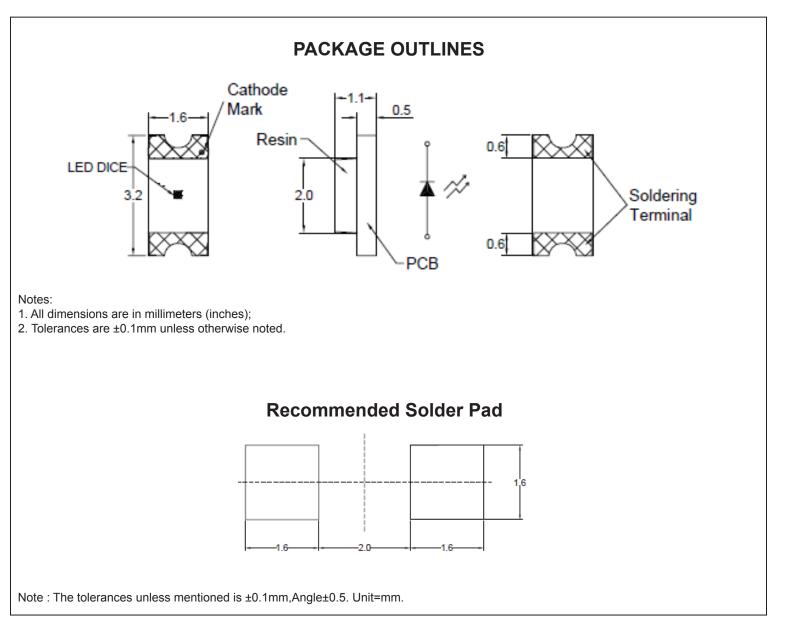


SPECIFICATIONS



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS126AB1C	InGaN/GaN	Blue	Water Clear	140°



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CS126AB1C



ABSOLUTE MAXIMUM RATINGS

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

OPTICAL-ELECTRICAL CHARACTERISTICS

Develop	Symbol	Test Condition	Value			
Parameter			Min	Тур	Max	Unit
Wavelength at peak emission	λpeak	I _F = 20mA	-	465	-	nm
Spectral half bandwidth	Δλ	I _F = 20mA	-	30	-	nm
Dominant wavelength	λD	I _F = 20mA	-	470	-	nm
Forward Voltage	Vf	I _F = 20mA	-	3.5	4.0	V
Luminous intensity	lv	I _F = 20mA	50	100	-	mcd
Viewing angle at 50% Iv	20 1⁄2	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

RoHS Compliant

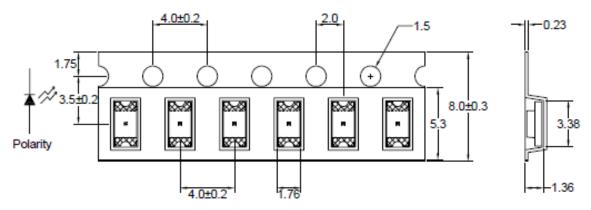
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(TA=25°C)

(TA=25°C)



DIMENSIONS OF TAPE (Unit: mm)



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

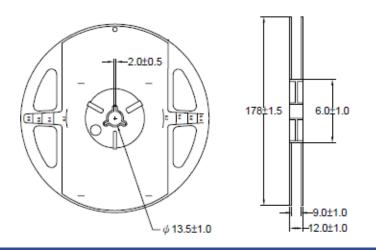
1. Empty component pockets are sealed with top cover tape; 2. The maximum number of missing lamps is two;

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

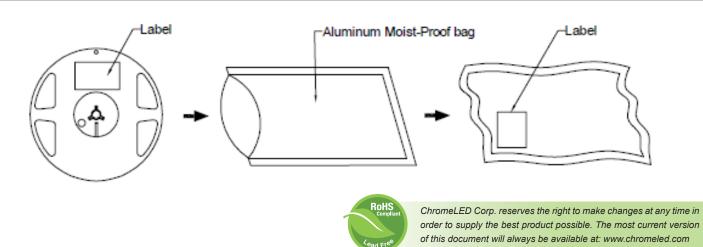
NOTES:

4. 3,000pcs/Reel

REEL DIMENSIONS



PACKAGING SPECIFICATION





OPTICAL CHARACTERISTIC CURVES

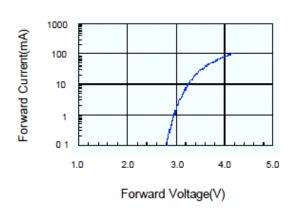


Fig.1 Forward current vs. Forward Voltage

Fig.2 Relative Intensity vs. Forward Current

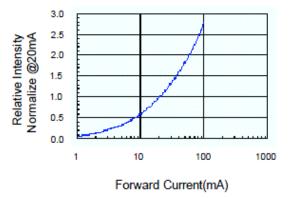
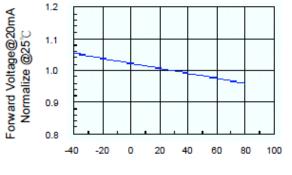
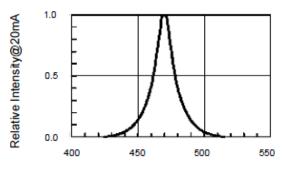


Fig.3 Forward Voltage vs. Temperature



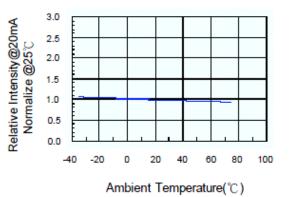
Ambient Temperature(°C)

Fig.5 Relative Intensity vs. Wavelength

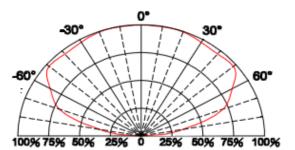


Wavelength (nm)

Fig.4 Relative Intensity vs. Temperature









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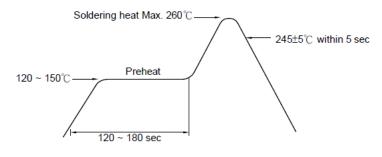


SOLDERING CONDITIONS – LAMP TYPE LED

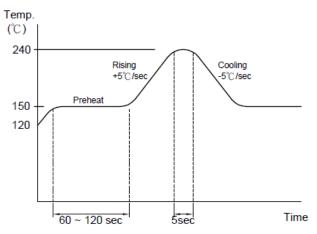
1. Hand Solder

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

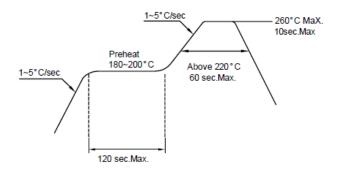
2. Wave Solder



3-1. LEAD Reflow Solder



3-2 PB-Free Reflow Solder



LUMINOUS INTENSITY CLASSIFICATION

BIN CODE	lv(mcd) at 20mA		
BINCODE	Min.	Max.	
Р	50	80	
Q	80	125	
R	125	200	
S	200	320	
Т	320	500	

DOMINANT WAVELENGTH CLASSIFICATION

BIN CODE	λD(nm) at 20mA		
BINCODE	Min.	Max.	
0D	465	468	
0C	468	471	
0B	471	474	
0A	474	477	

FORWARD VOLTAGE CLASSIFICATION

	Vf(v) at 20mA		
BIN CODE	Min.	Max.	
1	2.8	3.0	
2	3.0	3.2	
3	3.2	3.4	
4	3.4	3.6	
5	3.6	3.8	
6	3.8	4.0	



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Reflow Soldering should not be done more than two times.