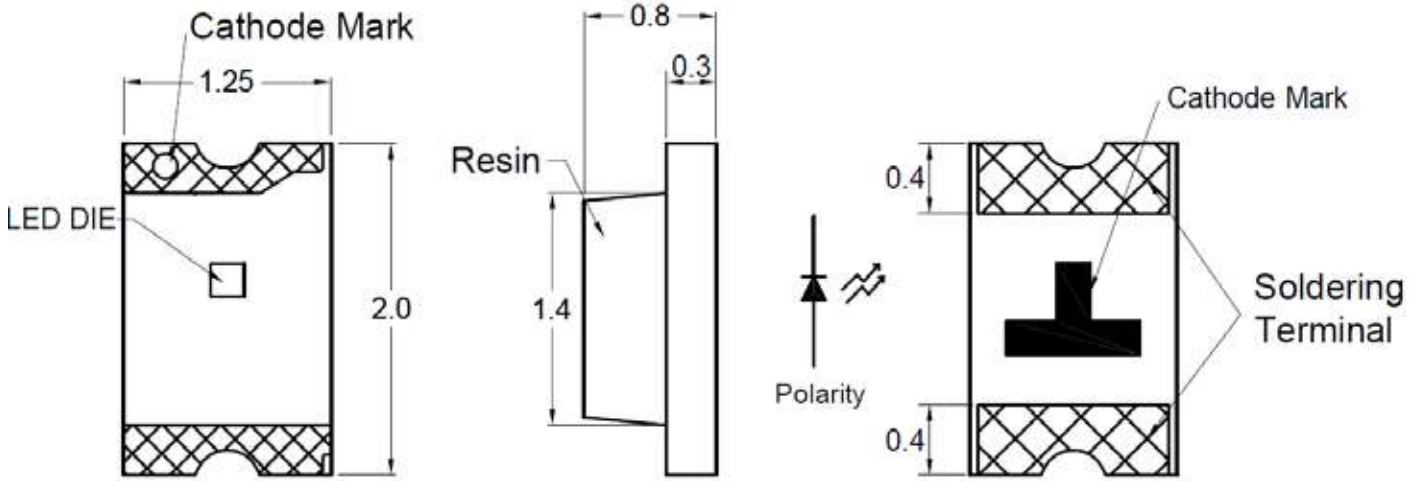
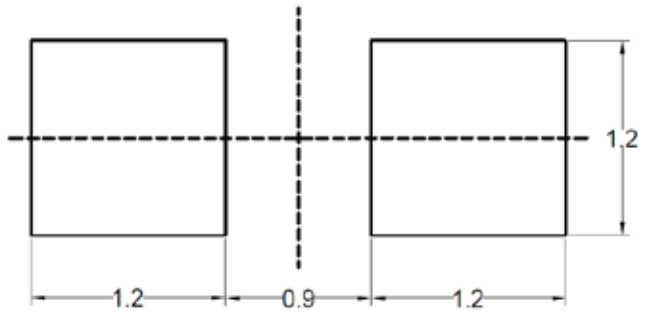


SPECIFICATIONS **CS85BY2C**

PACKAGE DIMENSION



Recommended Solder Pad



Notes:
 1. All dimensions are in millimeters (inches);
 2. Tolerances are ±0.1mm unless otherwise noted.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS85BY2C	AlGaInP	Yellow	Water Clear	130°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Value	Unit
Forward current	I _f	30	mA
Reverse current @ 5V	I _r	10	μA
Power dissipation	P _d	78	mW
Operating temperature range	T _{op}	-40~+85	°C
Storage temperature range	T _{stg}	-40~+90	°C
Peak pulsing current (1/10 duty f= 10KHz)	I _{fp}	60	mA
Electrostatic Discharge	ESD	2000	V
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

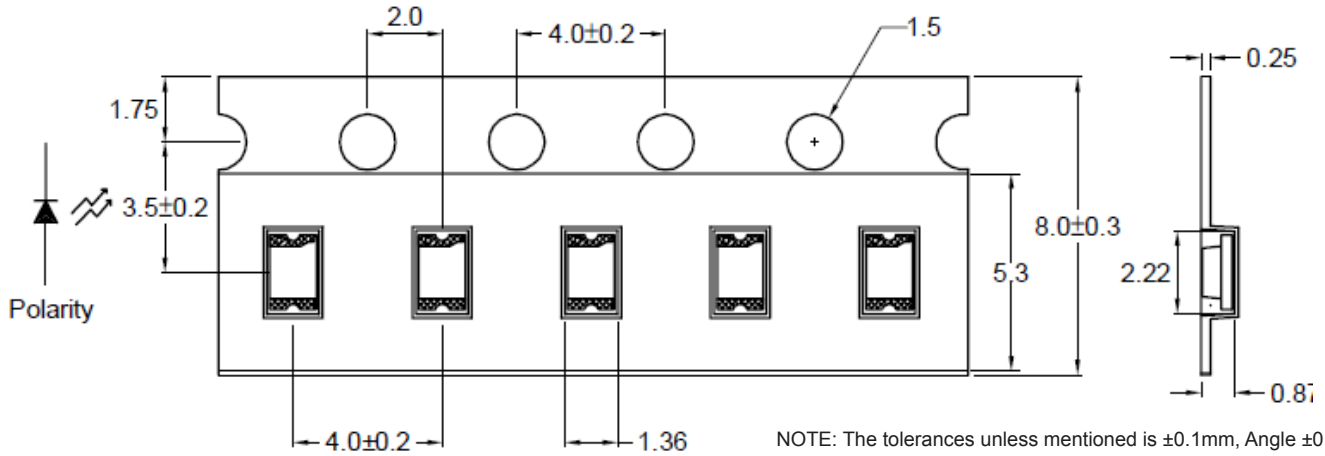
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Wavelength at peak emission	λ _{peak}	I _F = 20mA	-	593	-	nm
Spectral half bandwidth	Δλ	I _F = 20mA	-	20	-	nm
Dominant wavelength	λ _{dom}	I _F = 20mA	-	590	-	nm
Forward Voltage	V _f	I _F = 20mA	1.7	-	2.6	V
Luminous intensity	I _v	I _F = 20mA	50	80	-	mcd
Viewing angle at 50% I _v	2Θ ½	I _F = 20mA	-	130	-	Deg

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

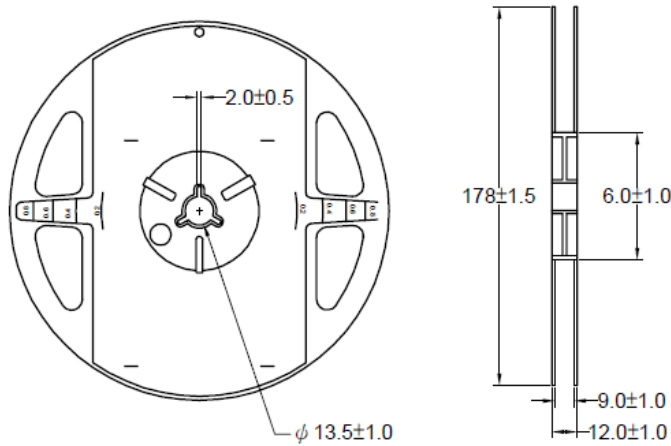


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DIMENSIONS OF TAPE (Unit: mm)



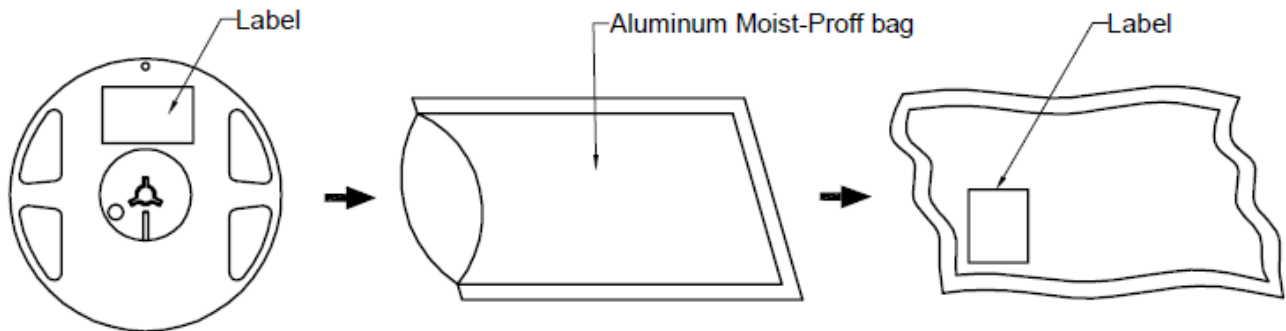
REEL DIMENSIONS



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

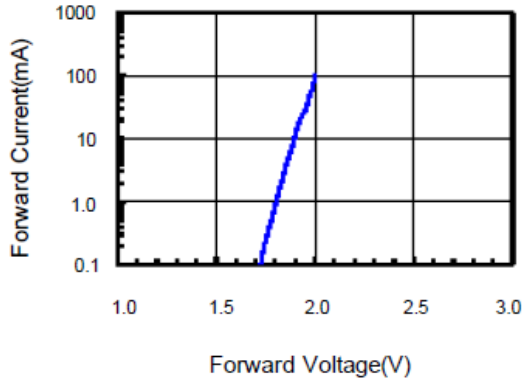


Fig.2 Relative Intensity vs. Forward Current

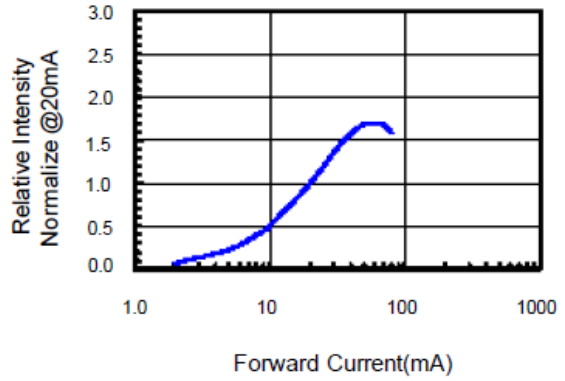


Fig.3 Forward Voltage vs. Temperature

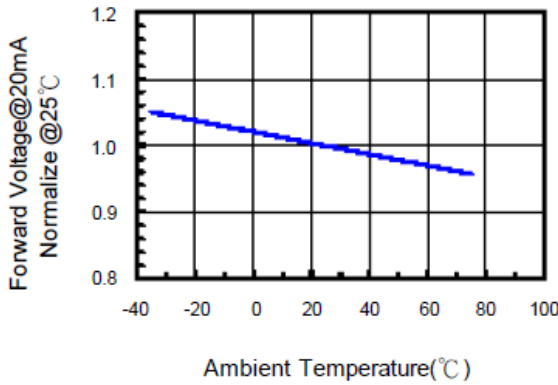


Fig.4 Relative Intensity vs. Temperature

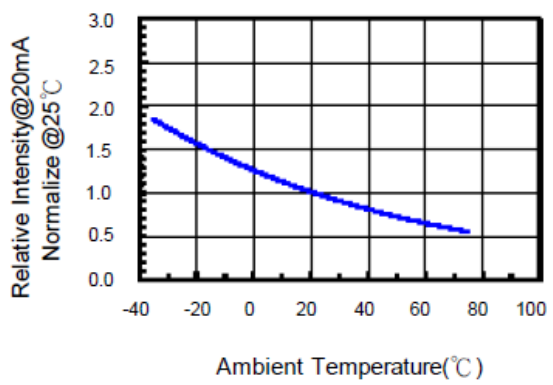


Fig.5 Relative Intensity vs. Wavelength

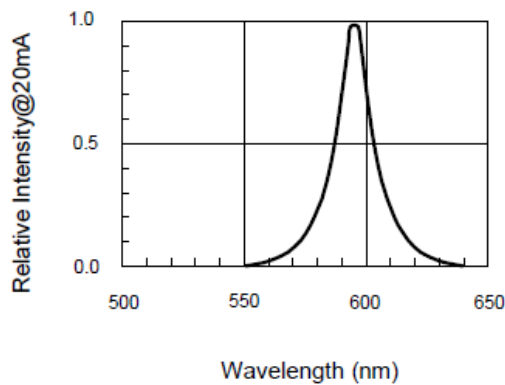
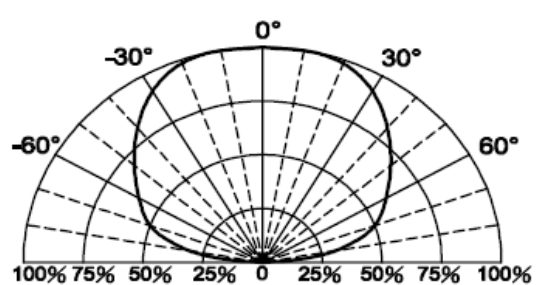


Fig.6 Directive Radiation



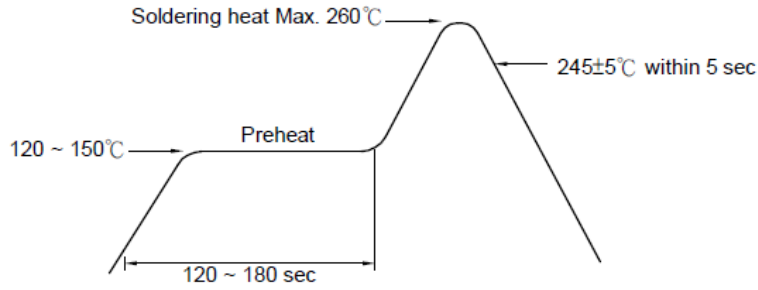
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SOLDERING CONDITIONS – LAMP TYPE LED

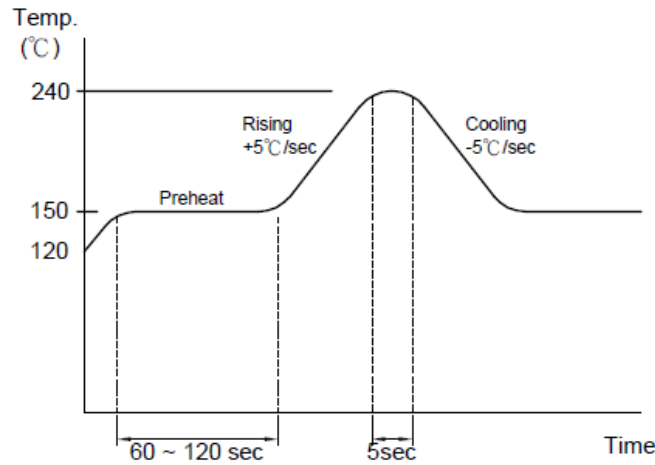
1. Hand Solder

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

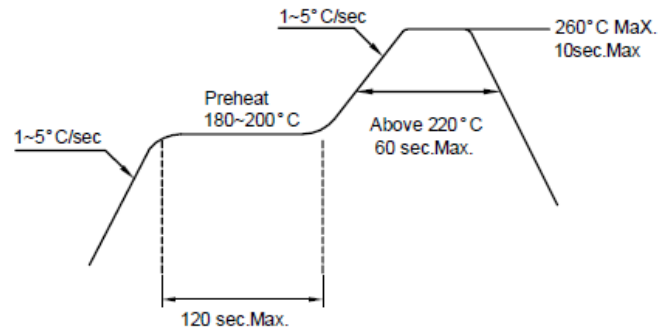
2. Wave Solder



3-1. LEAD Reflow Solder



3-2 PB-Free Reflow Solder



Reflow Soldering should not be done more than two times.



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