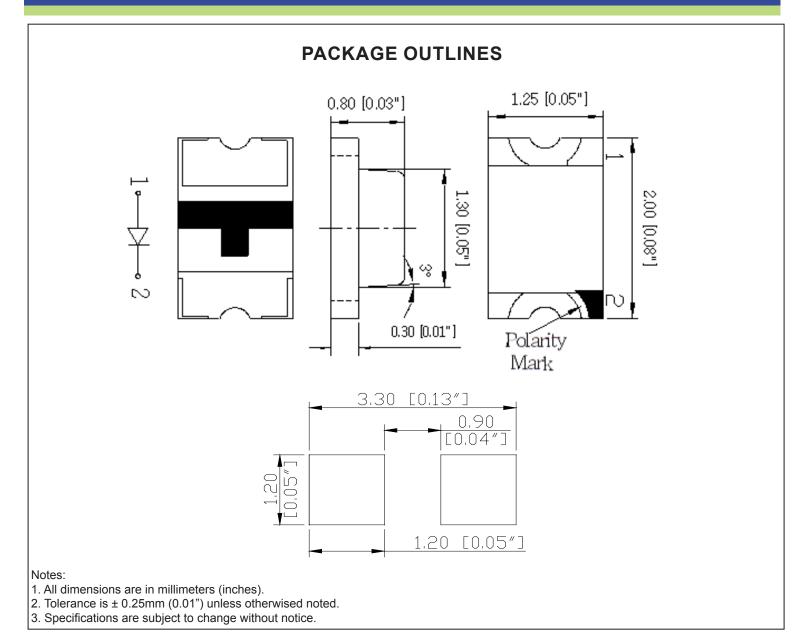


SPECIFICATION



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle	
CS85BW3C	InGaN	White	Yellow Diffused	140°	



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CS85BW3C



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	111	mW	
Operating Temperature Range	Тор	-40~+85	°C	
Storage Temperature Range	Тѕтс	-40~+90	°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)

Doromotor	Symbol	Test Condition	Value			Linit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	١v	IF = 20mA	200	390	-	mcd
Forward Voltage	Vf	IF = 20mA	-	3.1	3.7	V
Reverse Leakage Current	lr	VR = 5V	-	-	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 20mA	-	140	-	Deg
Chromaticity Coordinates	Х	IF = 20mA	-	0.28	-	nm
Chromaticity Coordinates	Y	IF = 20mA	-	0.29	-	nm

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

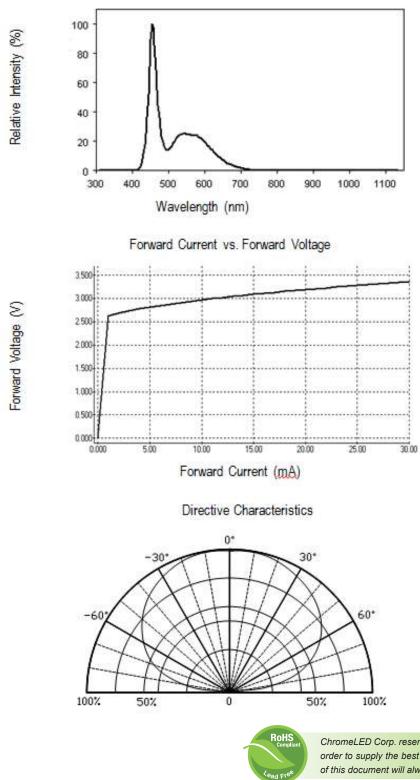


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OPTICAL CHARACTERISTIC CURVES

Relative Intensity vs. Wavelength

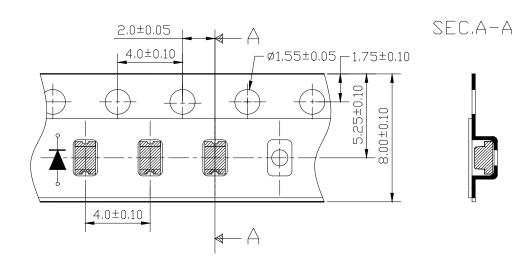


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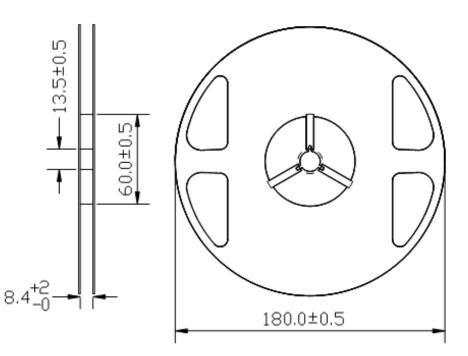


PACKAGING SPECIFICATION

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. 3,000 pcs/Reel

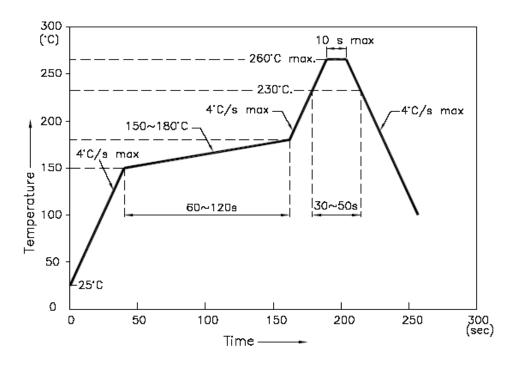


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SOLDERING CONDITIONS

REFLOW TEMP/TIME



NOTES:

- 1. We recommend the reflow temperature 245°C(±5°C).the maximum soldering temperature should be limited to 260°C.
- 2. Don't 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 ≤ 5 sec when 260°C. If temperature is higher, time should be shorter (+10°C -> -1 sec). 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
 - Customer must finish rework within 5 sec under 260°C
 - o The head of iron cannot touch copper foil
 - Twin-head type is preferred.
 - Avoid rubbing or scraping the resin by any object during high temperature, for example reflow, solder etc.



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