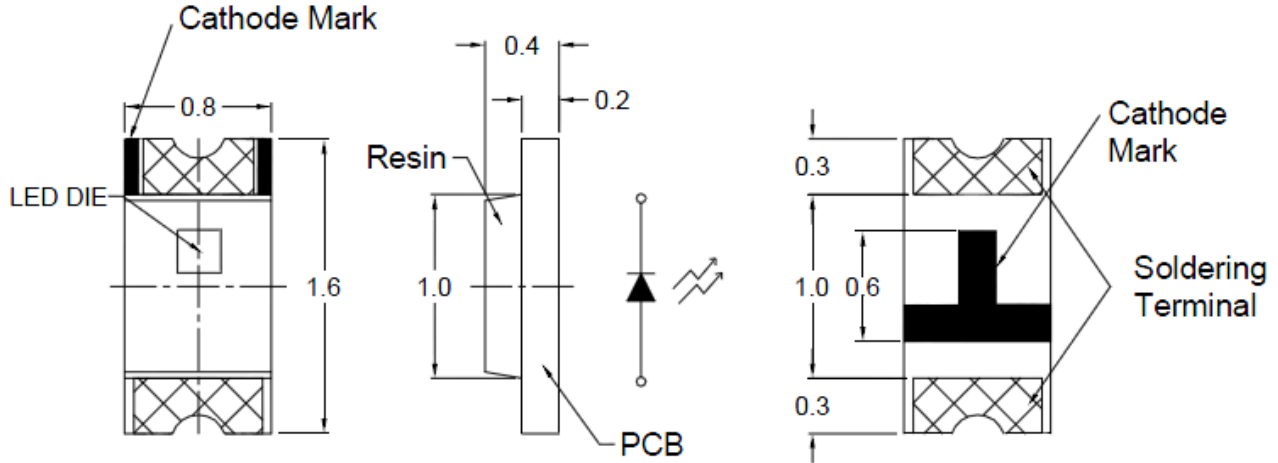
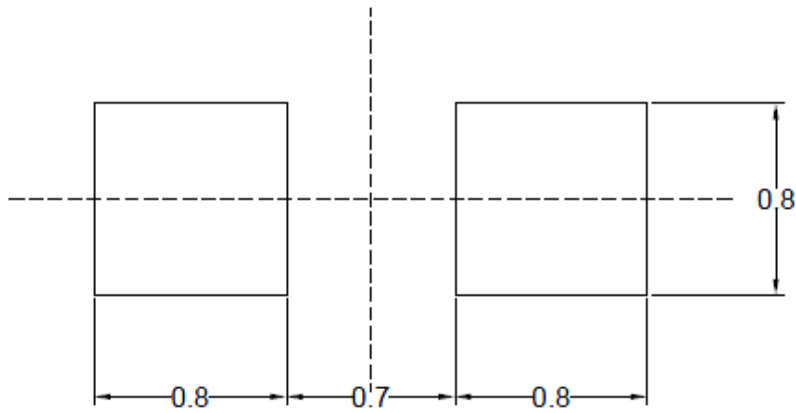


SPECIFICATION **CS63CW2C**
PACKAGE OUTLINES

RECOMMEND PAD LAYOUT


- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS63CW2C	InGaN	White	Yellow Diffused	140°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	20	mA
Reverse Current @ 5V	I _R	50	μA
Power Dissipation	P _d	80	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}	100	mA
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	
Luminous Intensity	I _v	I _F = 20mA	200	500	-	mcd
Forward Voltage	V _F	I _F = 20mA	-	3.5	4.0	V
Reverse Leakage Current	I _R	V _R = 5V	-	-	10	μA
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	140	-	Deg
Chromaticity Coordinates	X	I _F = 20mA	-	0.29	-	nm
Chromaticity Coordinates	Y	I _F = 20mA	-	0.28	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

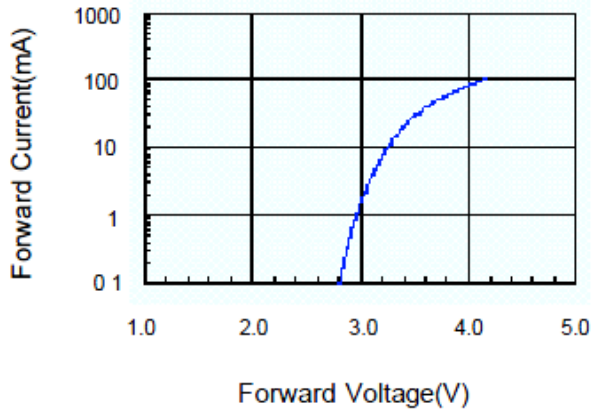


Fig.2 Relative Intensity vs. Forward Current

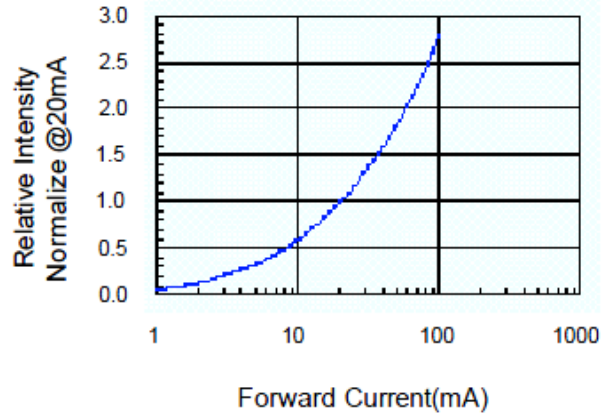


Fig.3 Forward Voltage vs. Temperature

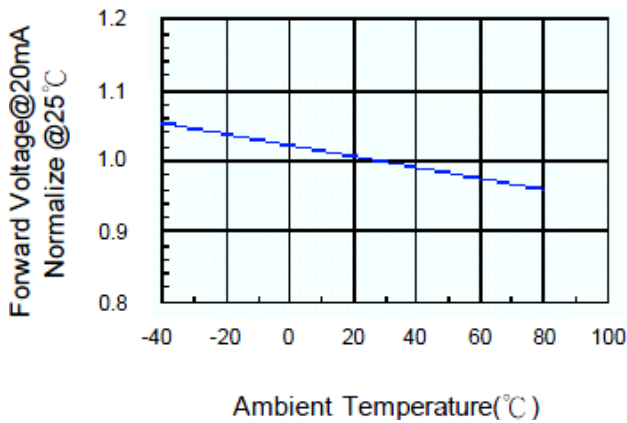


Fig.4 Relative Intensity vs. Temperature

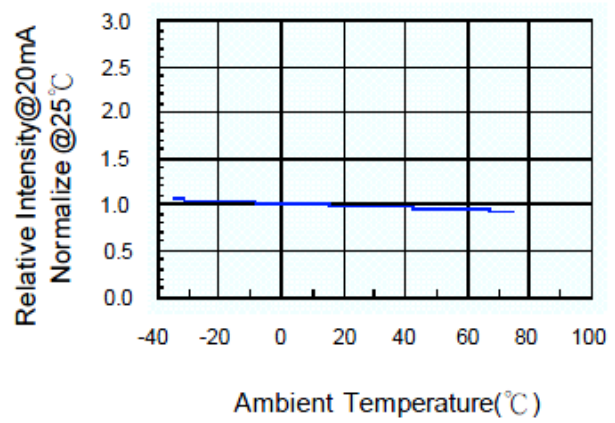


Fig.5 Luminous Spectrum (Ta=25°C)

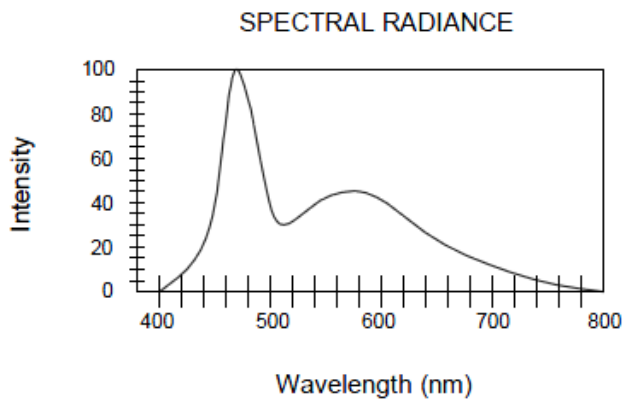
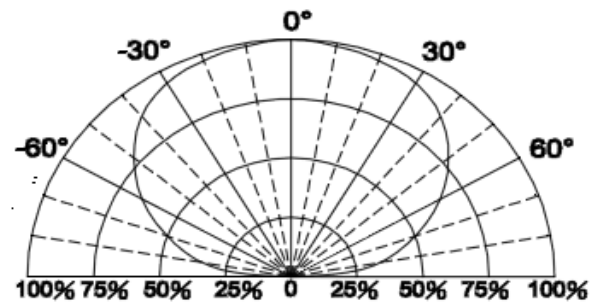
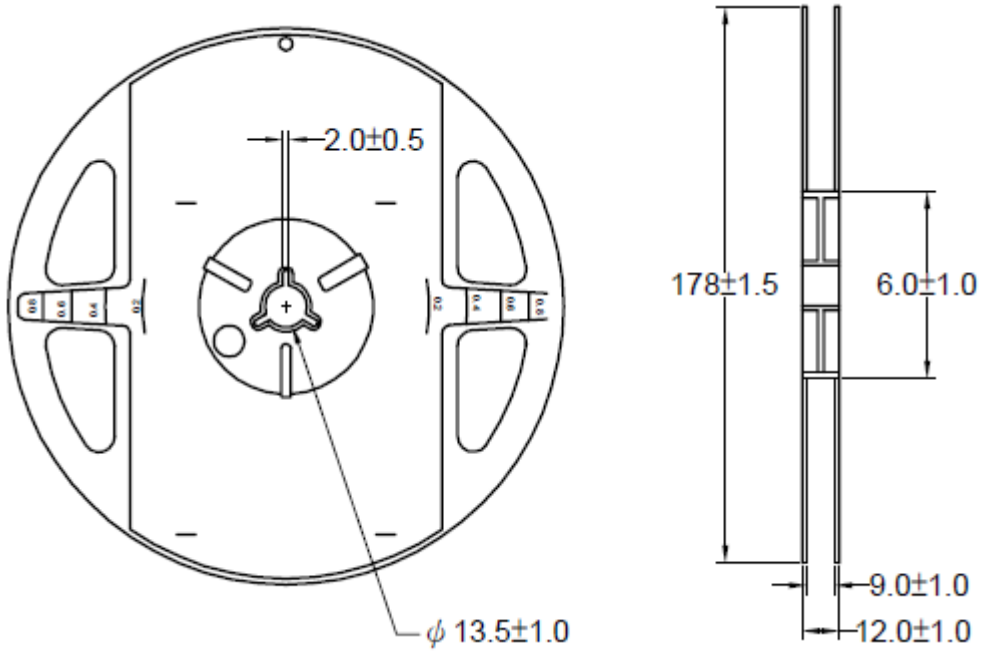


Fig.6 Directive Radiation

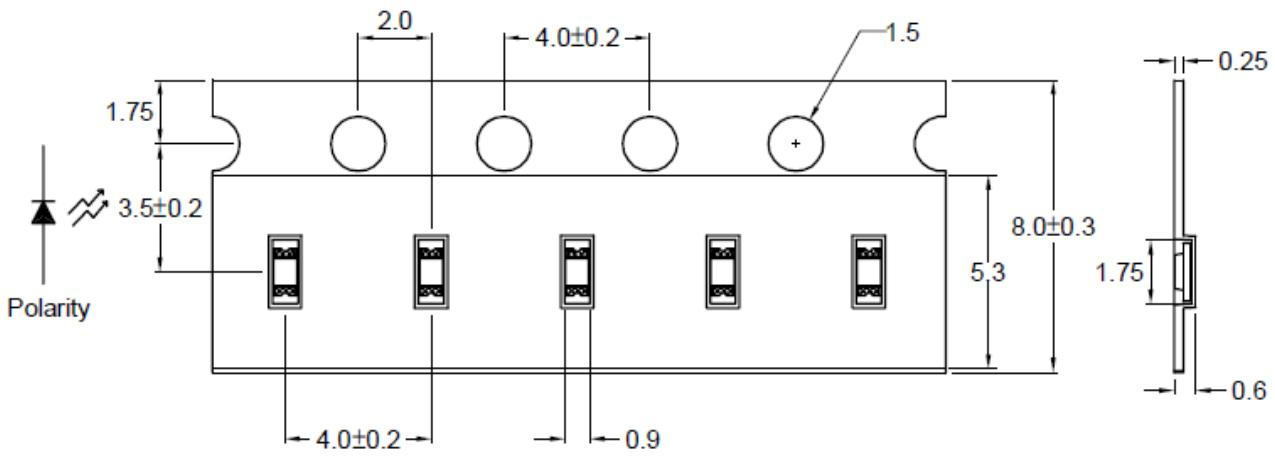


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PACKAGING SPECIFICATION



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. 4,000pcs/Reel



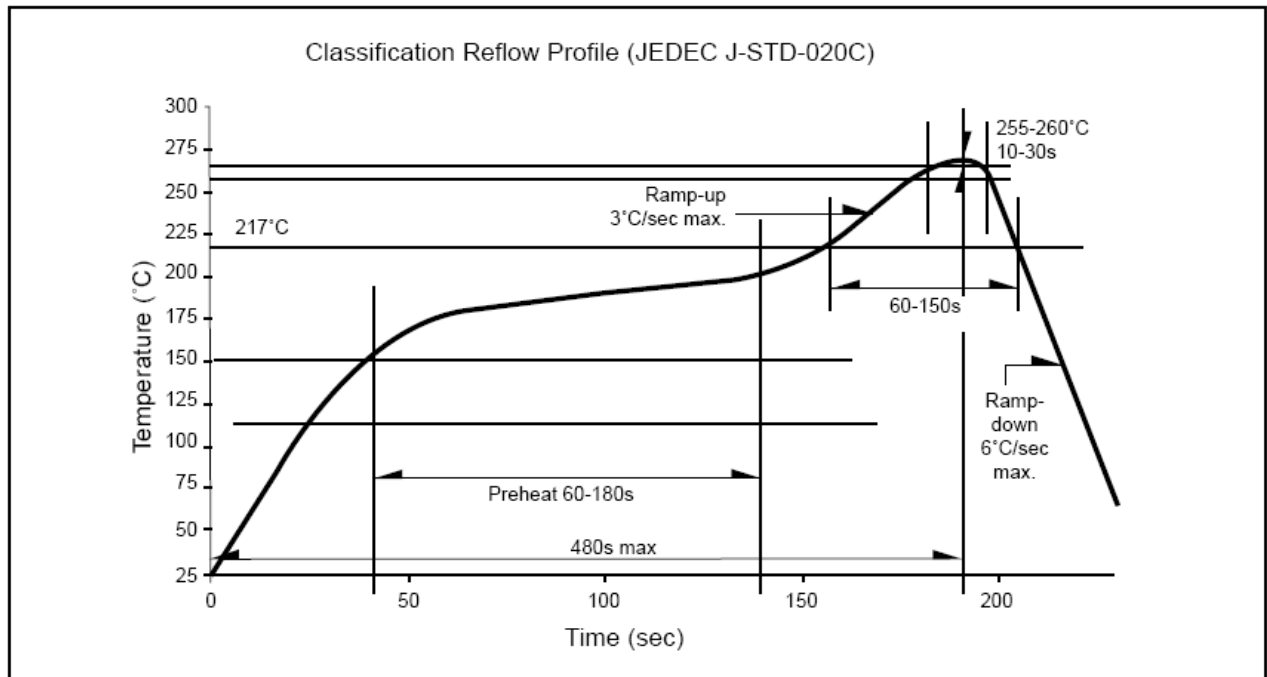
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SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



RECOMMENDED Pb-Free Soldering Profile



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