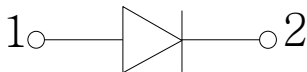
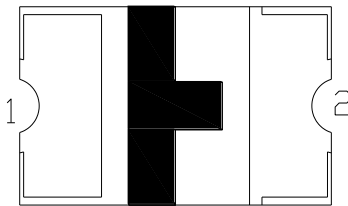
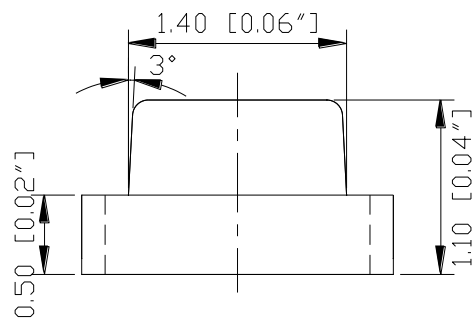
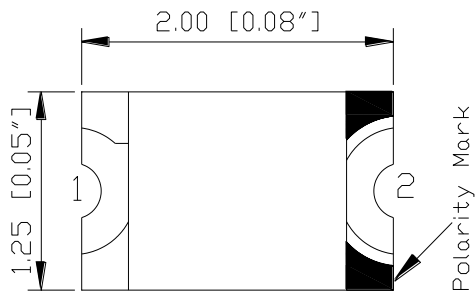
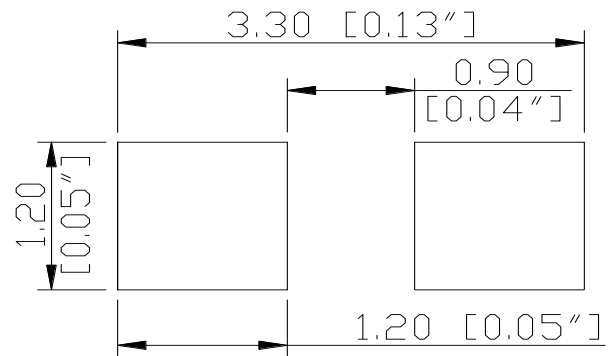


SPECIFICATION
CS85AUV1C
PACKAGE OUTLINES


- 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.

RECOMMEND PAD LAYOUT


ITEM	MATERIALS
Resin (mold)	Epoxy
Lens color	Water transparent
Dice	InGaN
Emitted color	Violet

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS85AUV1C	InGaN	Ultraviolet	Water Clear	140°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	30	mA
Reverse Current @ 5V	I _R	10	μA
Power Dissipation	P _d	111	mW
Operating Temperature Range	T _{OP}	-40~+80	°C
Storage Temperature Range	T _{STG}	-40~+85	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	125	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	-	15	-	mcd
Forward Voltage	V _F	I _F = 20mA	-	3.2	3.7	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
Peak Wavelength	λ _P	I _F = 20mA	-	405	-	nm
Dominant Wavelength	λ _D	I _F = 20mA	-	422	-	nm

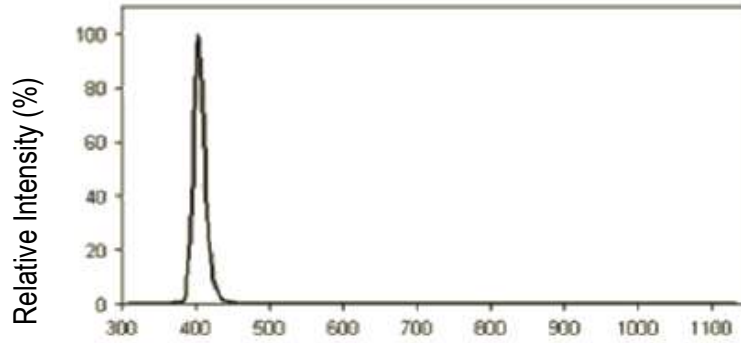
*Tolerance of viewing angle: -10 / +5 deg.



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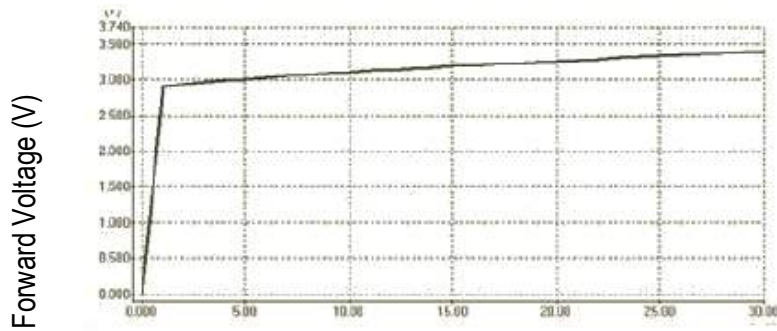
OPTICAL CHARACTERISTIC CURVES

Relative Intensity vs. Wavelength



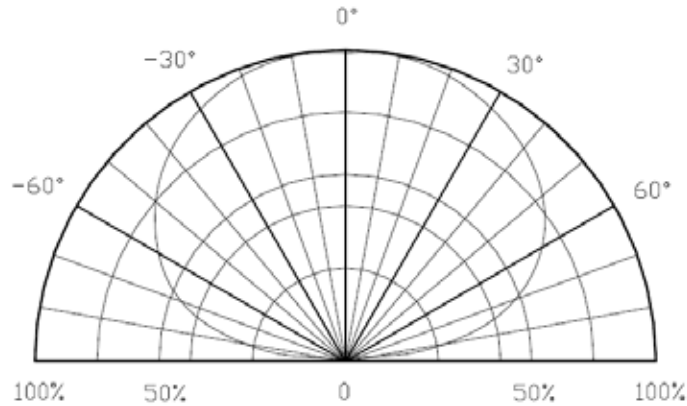
Wavelength (nm)

Forward Current vs. Forward Voltage



Forward Current (mA)

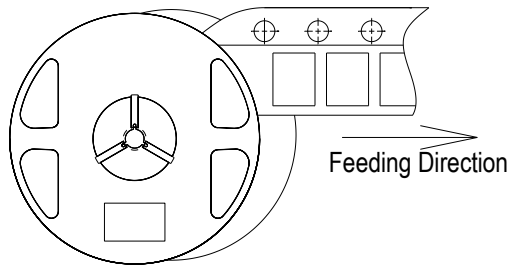
Directive Characteristics



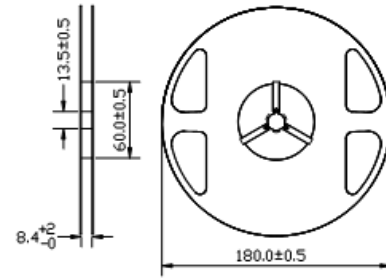
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PACKAGING SPECIFICATION

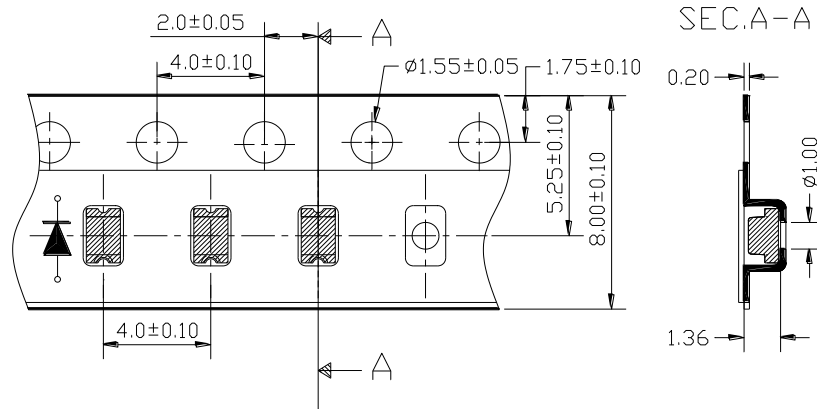
- **Feeding Direction**



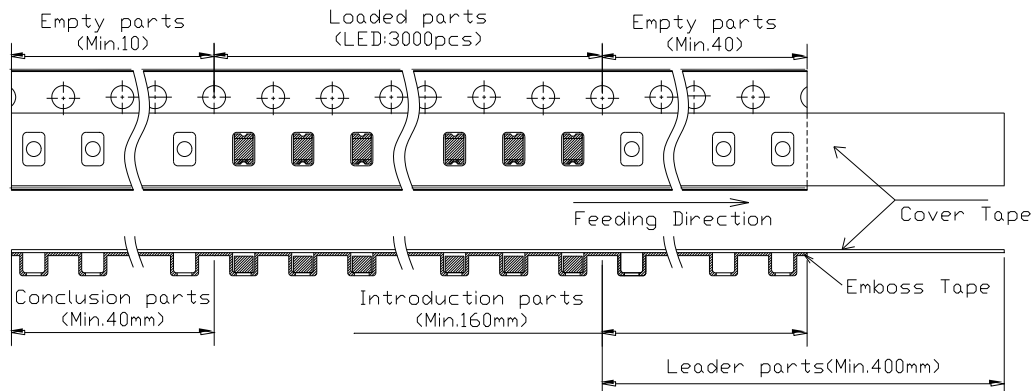
- **Dimensions of Reel (Unit: mm)**



- **Dimensions of Tape (Unit: mm)**



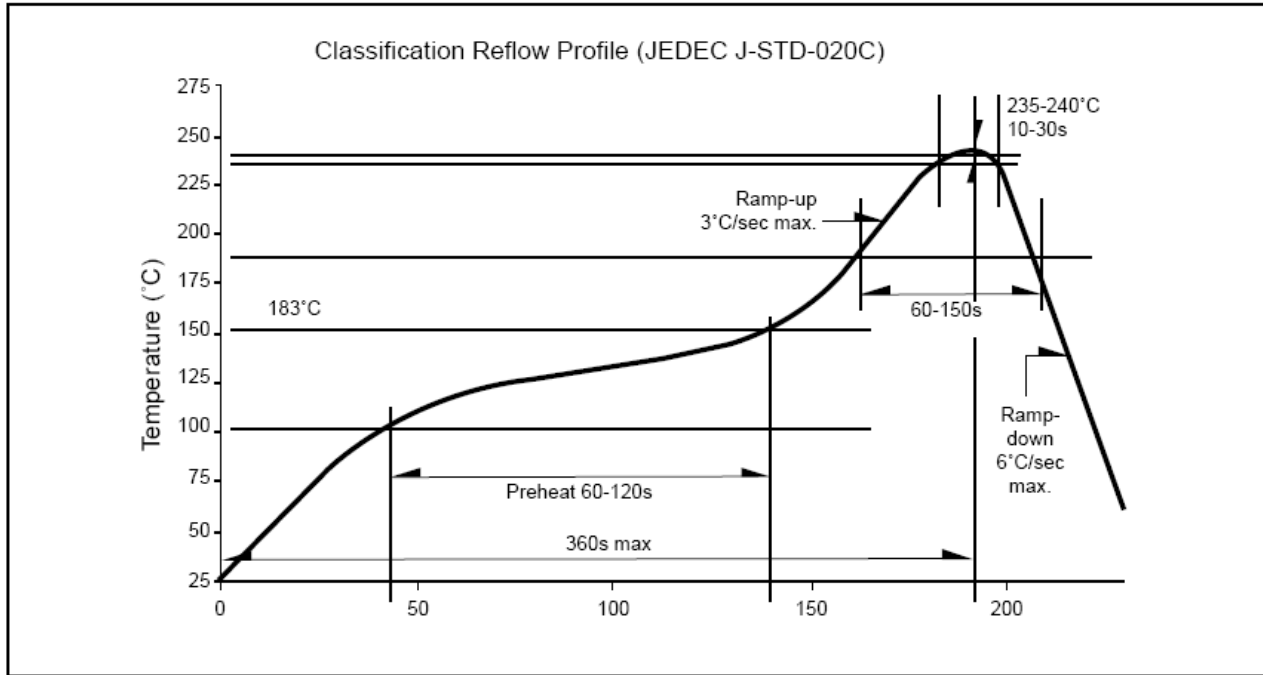
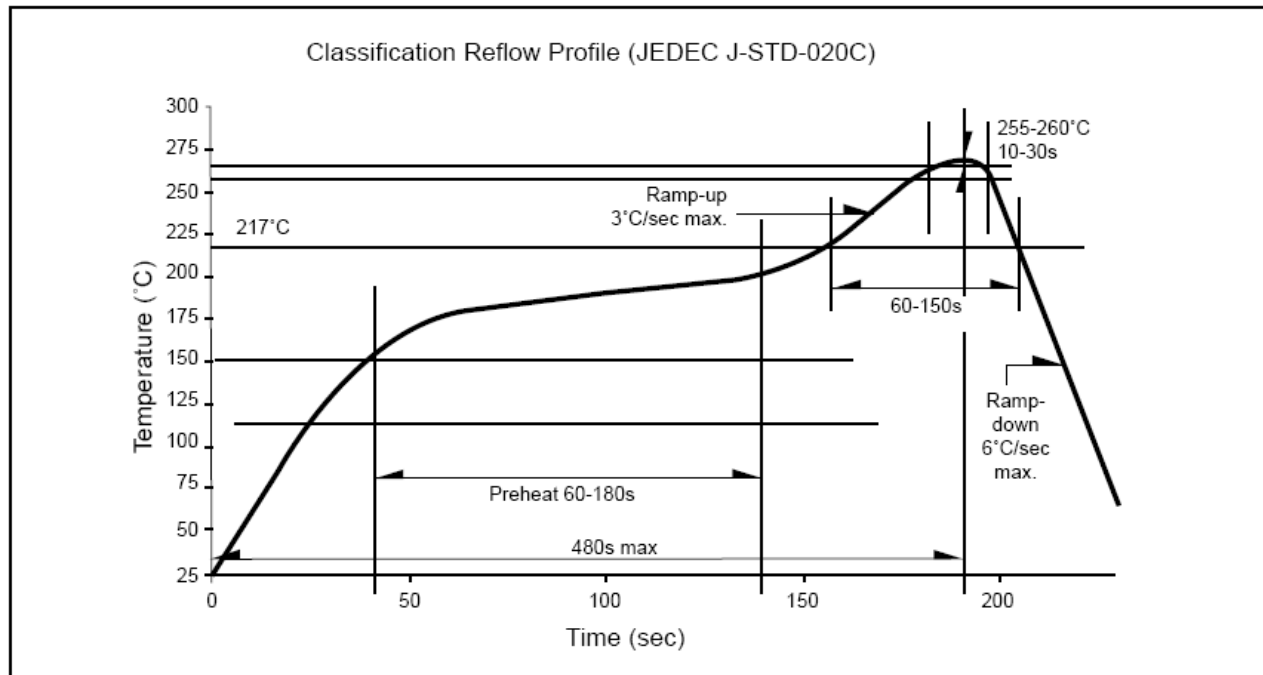
- **Arrangement of Tape**


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 in accordance with ANS/EIA RS-481 specifications.
4. 3,000pcs/Reel



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SOLDERING CONDITIONS
RECOMMENDED Sn-PB IR-Reflow Soldering Profile

RECOMMENDED Pb-Free Soldering Profile


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