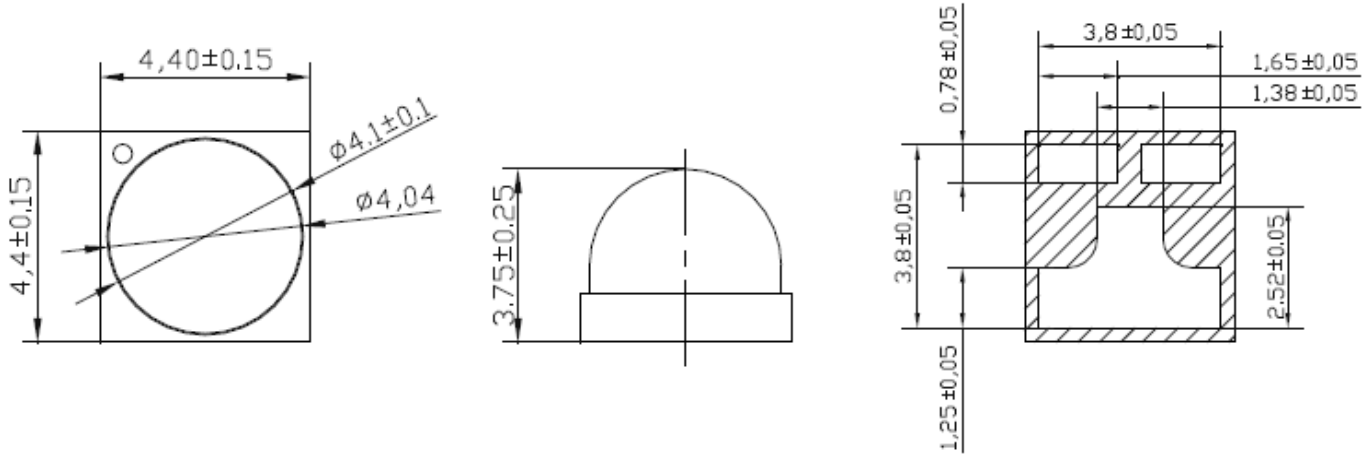
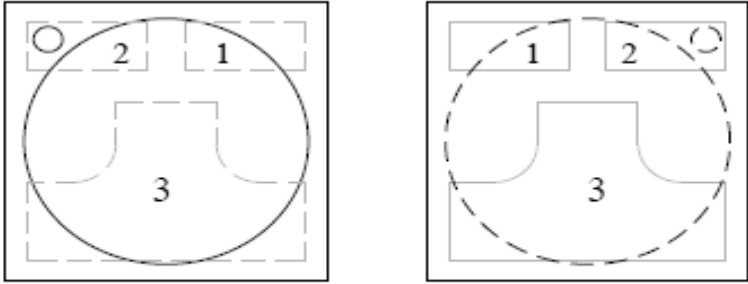


SPECIFICATIONS **CSHD1717UV280C-60**
MECHANICAL DIMENSIONS

PAD CONFIGURATION

TOP
BOTTOM

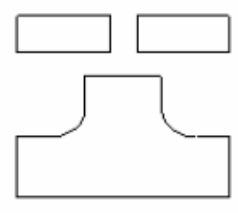
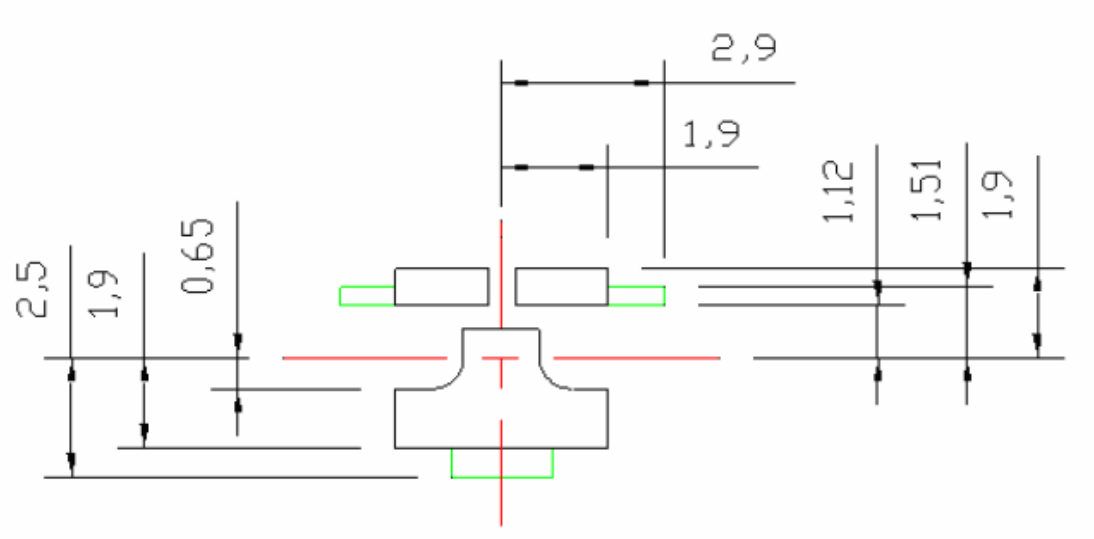
- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSHD1717UV280C-60	InGaN	UV	Water Clear	60°

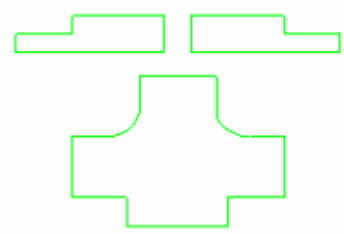


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RECOMMENDED SOLDER PATTERN



SOLDER MASK



COPPER LAYER



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ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation per Dice	PD	1.5	W
Continuous Forward Current per Dice	IF	150	mA
Thermal Resistance, Junction-Case	RTH, J-C1	15	°C/W
Operating Temperature	TOPR	-40~+60	°C
Storage Temperature	TSTG	-40~+100	°C

OPTICAL-ELECTRICAL CHARACTERISTICS (TA=25°C)

Characteristic	Symbol	Condition	Value			Unit
			Min.	Type.	Max.	
Forward Voltage per Dice	VF	IF = 150mA	-	8	10	V
Peak Wavelength per Dice	λP		275	-	285	nm
Radiant Flux	ΦE		8	10	-	mW
Viewing Angle	2θ 1/2		-	60	-	Deg
Spectra Half-Width	Δλ				15	-

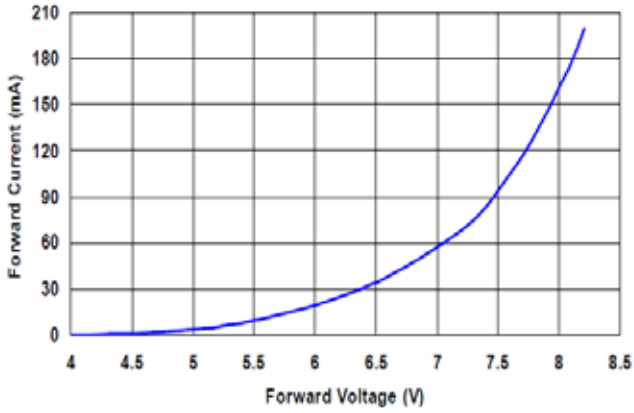
*Tolerance of viewing angle: -10 / +5 deg.



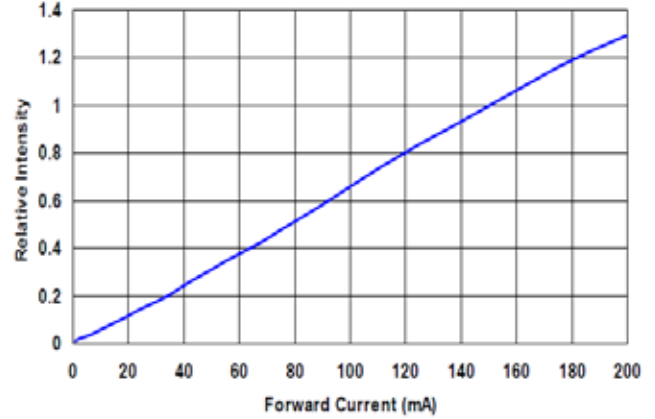
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OPTICAL CHARACTERISTIC CURVES

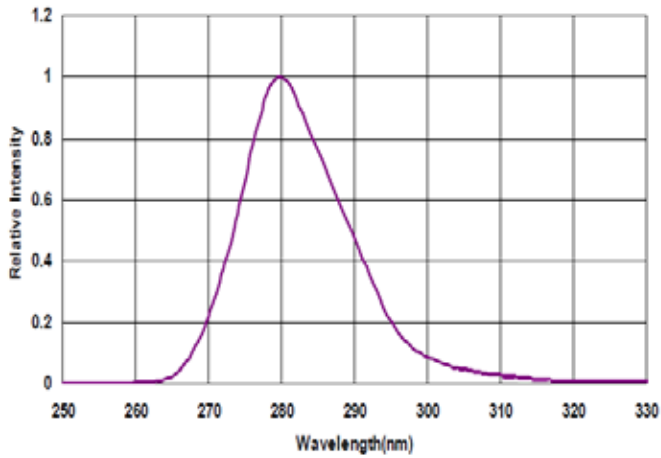
Forward Current vs. Forward Voltage



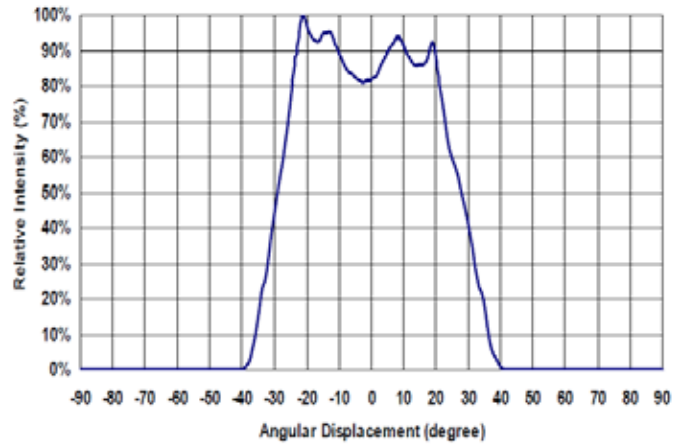
Relative Intensity vs. Forward Current



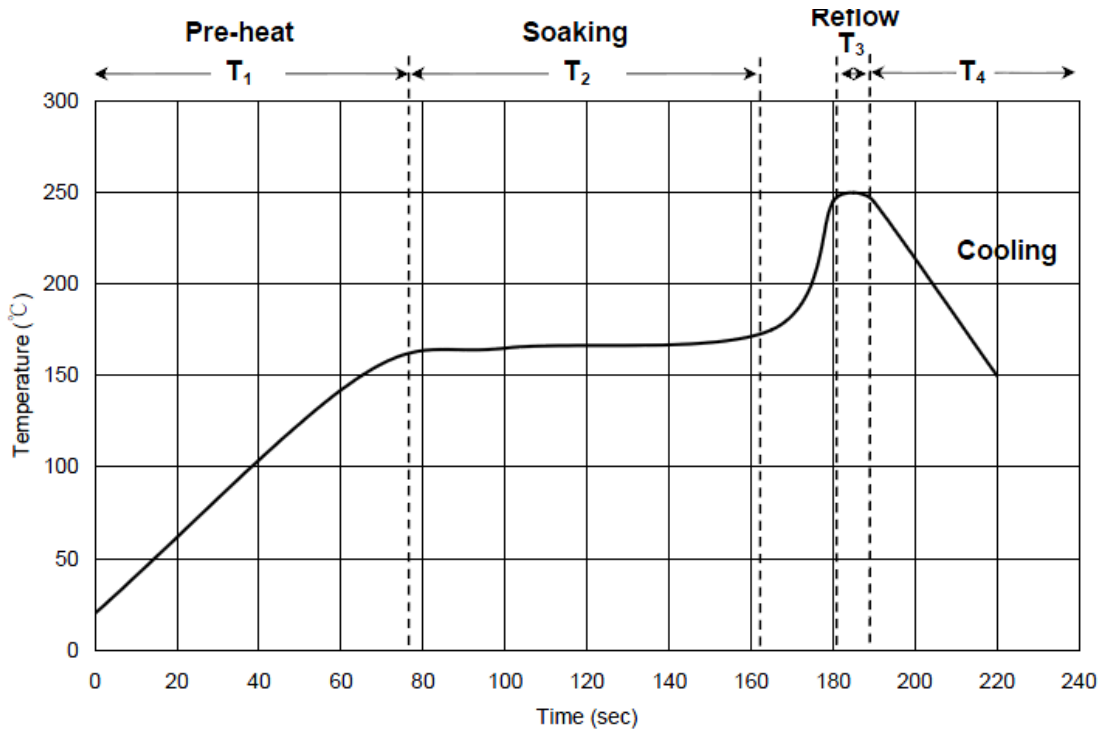
Spectral Power Distribution



Typical Radiation Pattern



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REFLOW SOLDERING CHARACTERISTICS


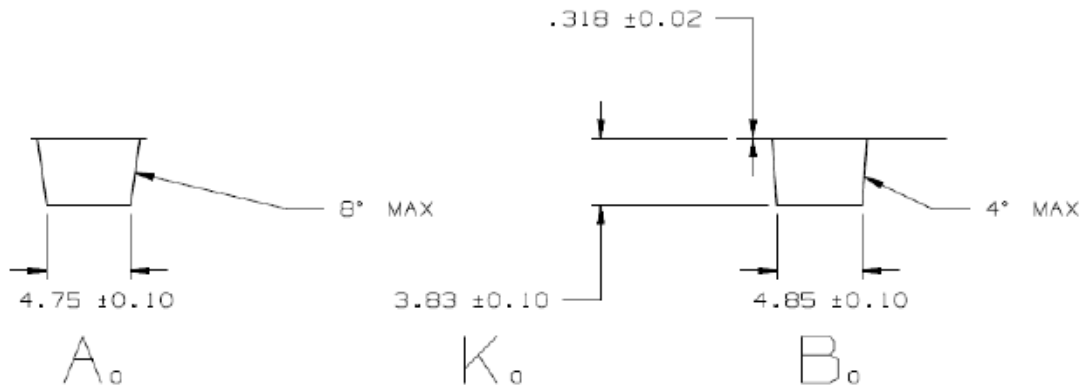
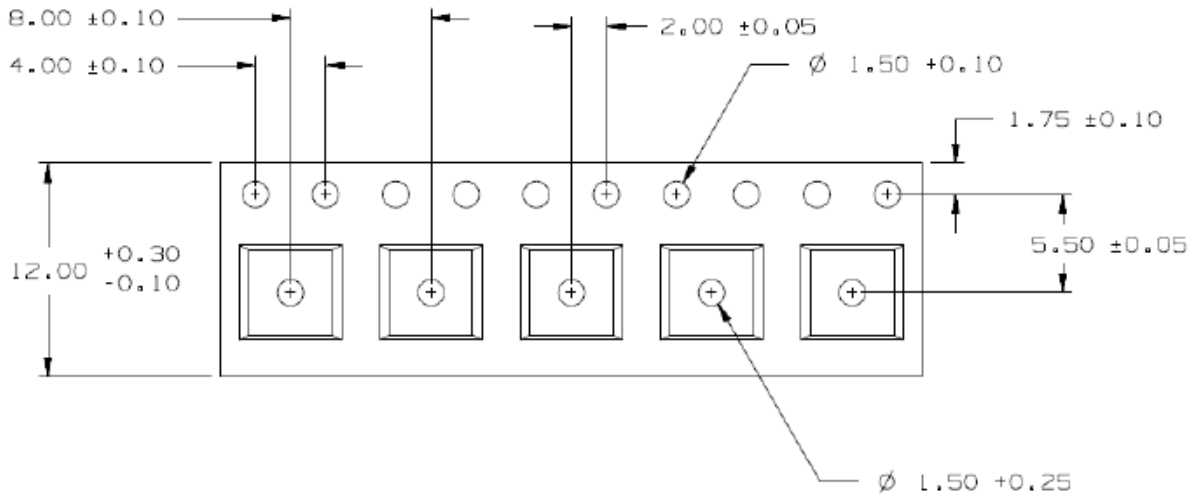
T ₁	Ramp up rate	1.0 ~ 3.0 °C/sec
	Pre-heat time	50~80 sec
T ₂	Soaking temperature	155~185°C
	Dwell time during soaking	60~120 sec
T ₃	Reflow temperature	240~250°C
	Reflow time	10 sec Max
	Ramp up rate during reflow	1.2~2.3 °C/sec
T ₄	Cooling	1.0~6.0 °C/sec

Notes:

1. Recommend using Sn96Ag3Cu0.5 lead free solder
2. Use alcohol-based cleaning solvents such as isopropyl alcohol to clean LED if necessary



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PACKAGE DIMENSIONS (Unit: mm)

Notes:

1. All dimensions are in millimeter unless otherwise noted
2. Moisture proof bag
3. 1 Reel/ bag
4. Quantity: 650(max)/ Reel



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