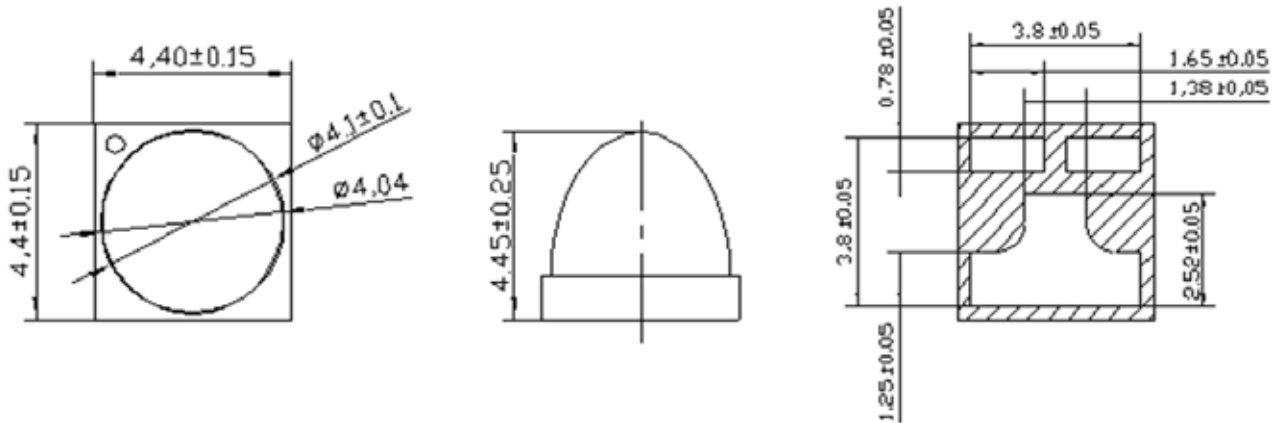
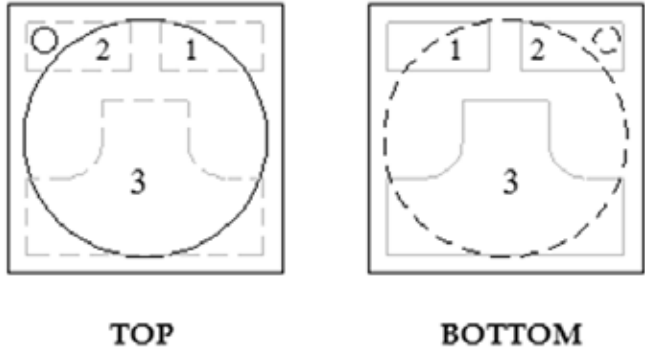


SPECIFICATIONS **CSHD1717UV405CZ-4**
MECHANICAL DIMENSIONS

PAD CONFIGURATION


Pad	Function
1	Cathode
2	Anode
3	Thermal

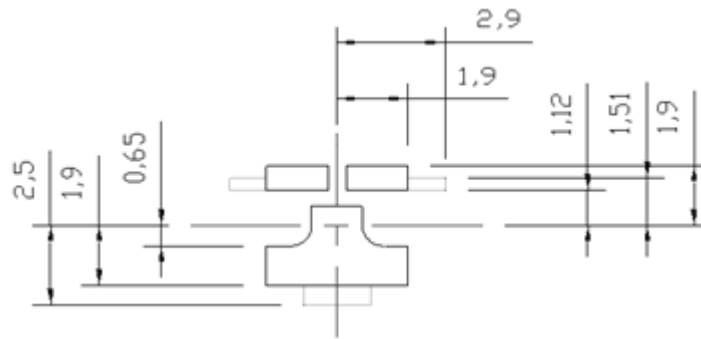
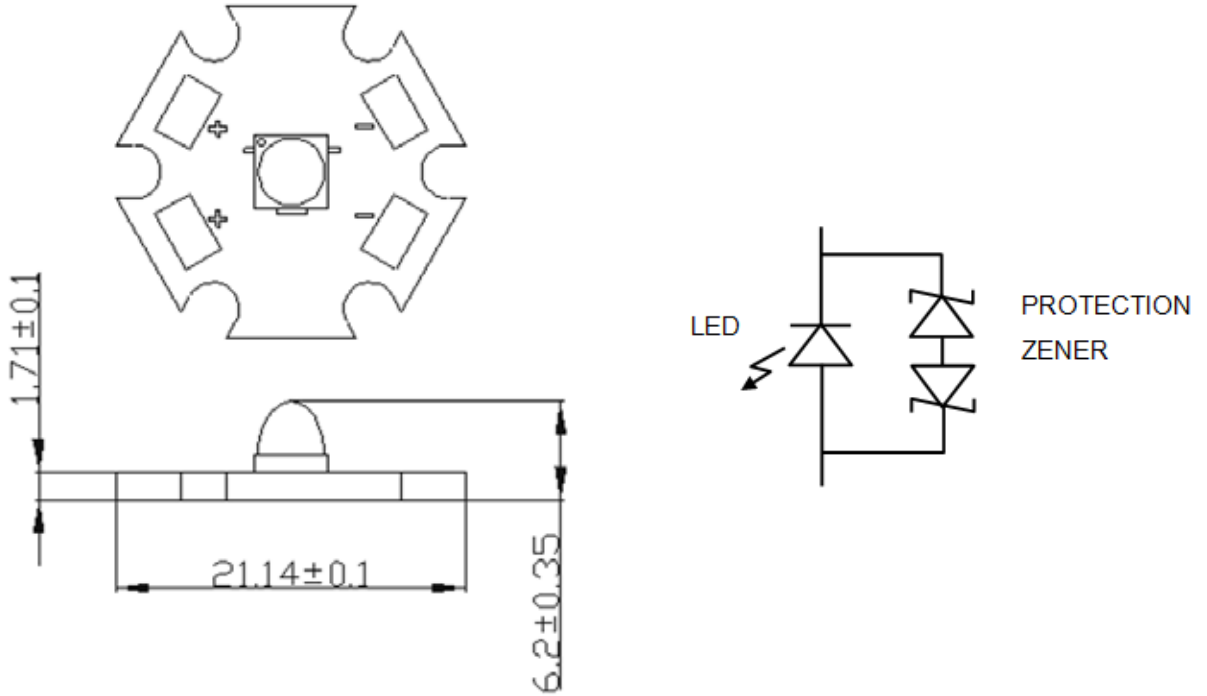
- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSHD1717UV405CZ-4	InGaN	UV	Water Clear	30°



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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	P _D	3	W
Continuous Forward Current per Dice	I _F	700	mA
Peak Current per Dice (duty cycle 1/10, 1kHz)	I _{PF}	1000	mA
Thermal Resistance, Junction-Case	R _{TH, J-C1}	5	°C/W
Operating Temperature	T _{OPR}	-40~+80	°C
Storage Temperature	T _{STG}	-40~+120	°C

OPTICAL-ELECTRICAL CHARACTERISTICS (TA=25°C)

Characteristic	Symbol	Condition	Value			Unit
			Min.	Type.	Max.	
Forward Voltage per Dice	V _F	I _F = 700mA	-	3.9	4.47	V
Peak Wavelength per Dice	λ _P		-	405	-	nm
Radiant Flux	Φ _E		500	700	-	mW
Viewing Angle	2θ 1/2		-	30	-	Deg
Spectra Half-Width	Δλ		-	15	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

Fig. Forward Current vs. Forward Voltage

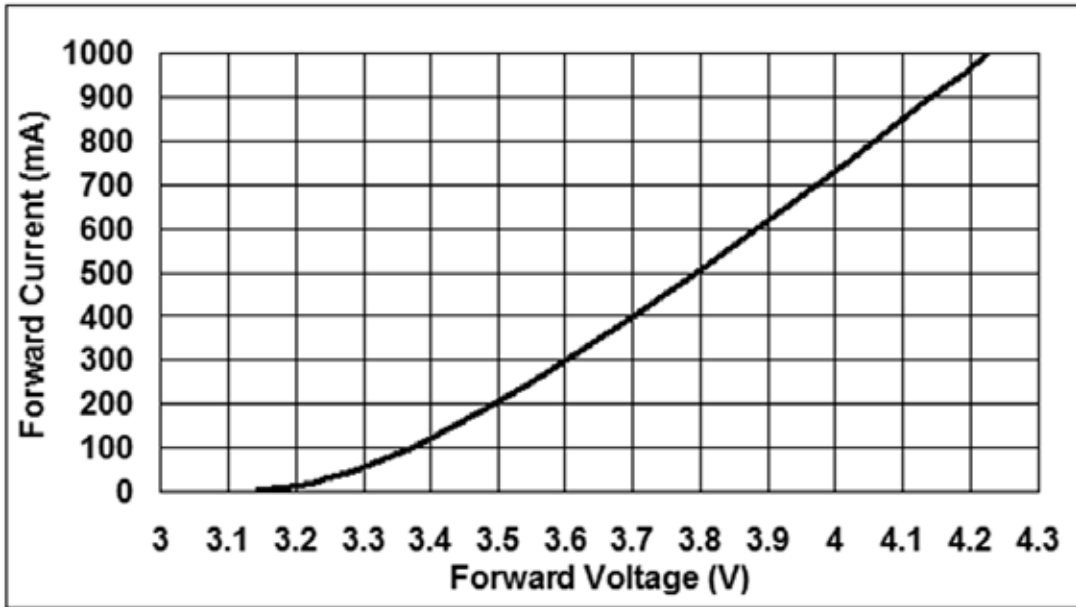
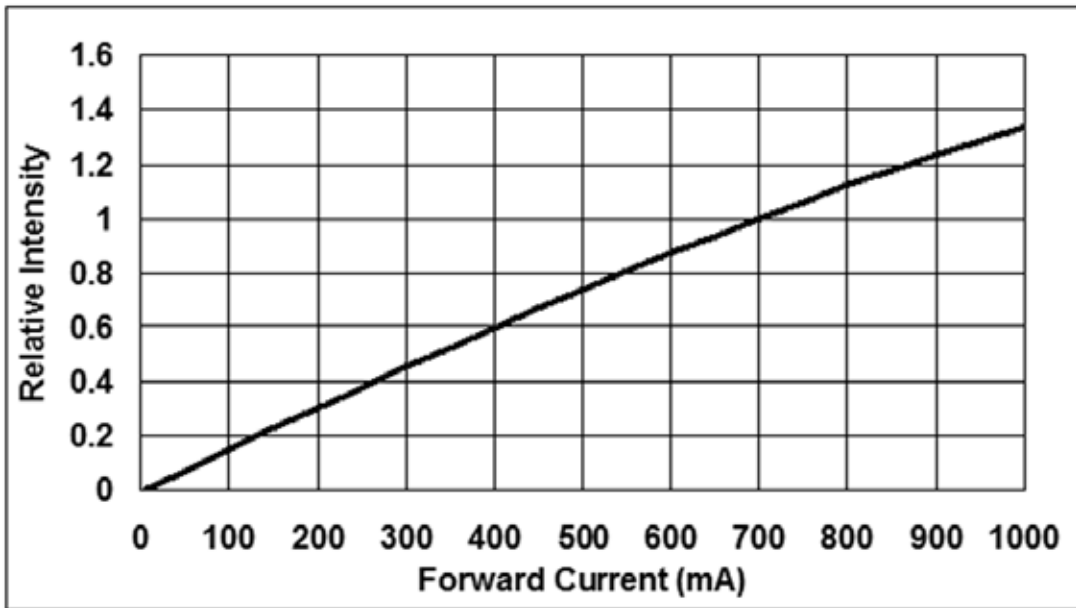


Fig. Relative Intensity vs. Forward Current



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OPTICAL CHARACTERISTIC CURVES

Fig. Typical Relative Intensity vs. wavelength

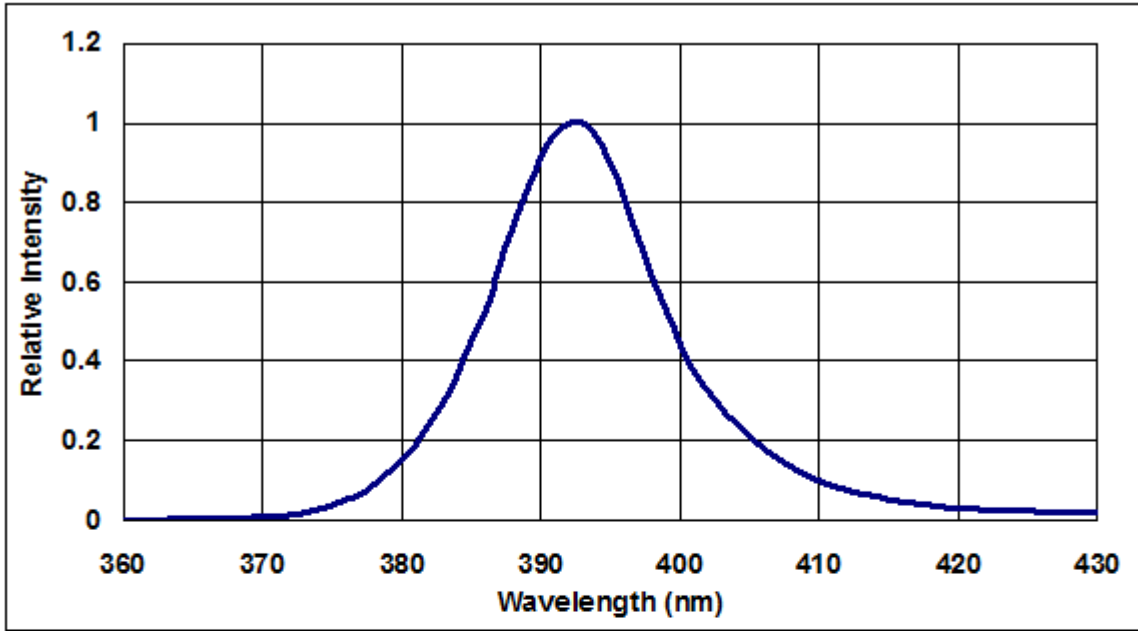
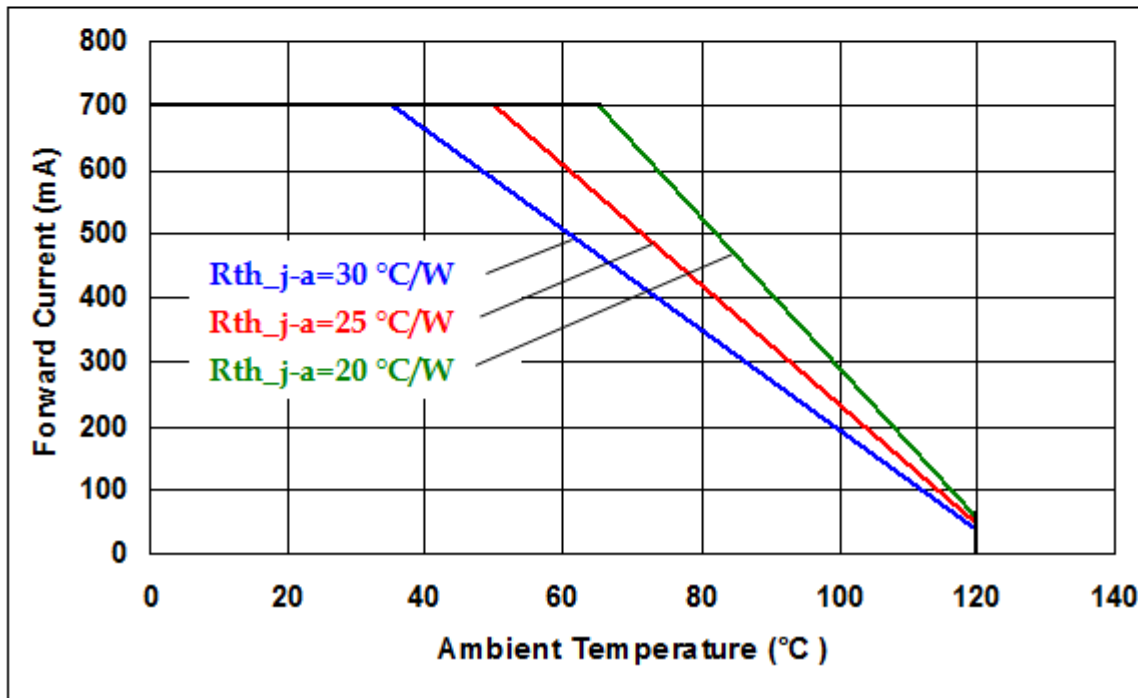


Fig. Forward Current Degrading Curve



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OPTICAL CHARACTERISTIC CURVES

Fig. Relative Intensity vs. Case Temperature

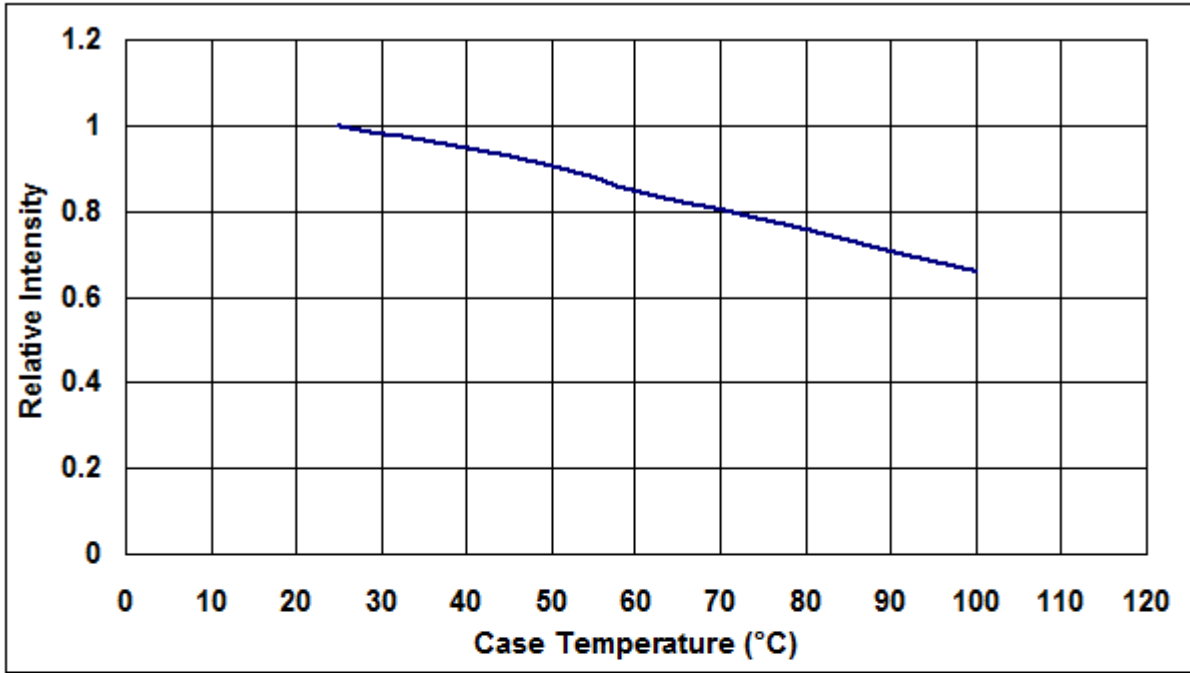
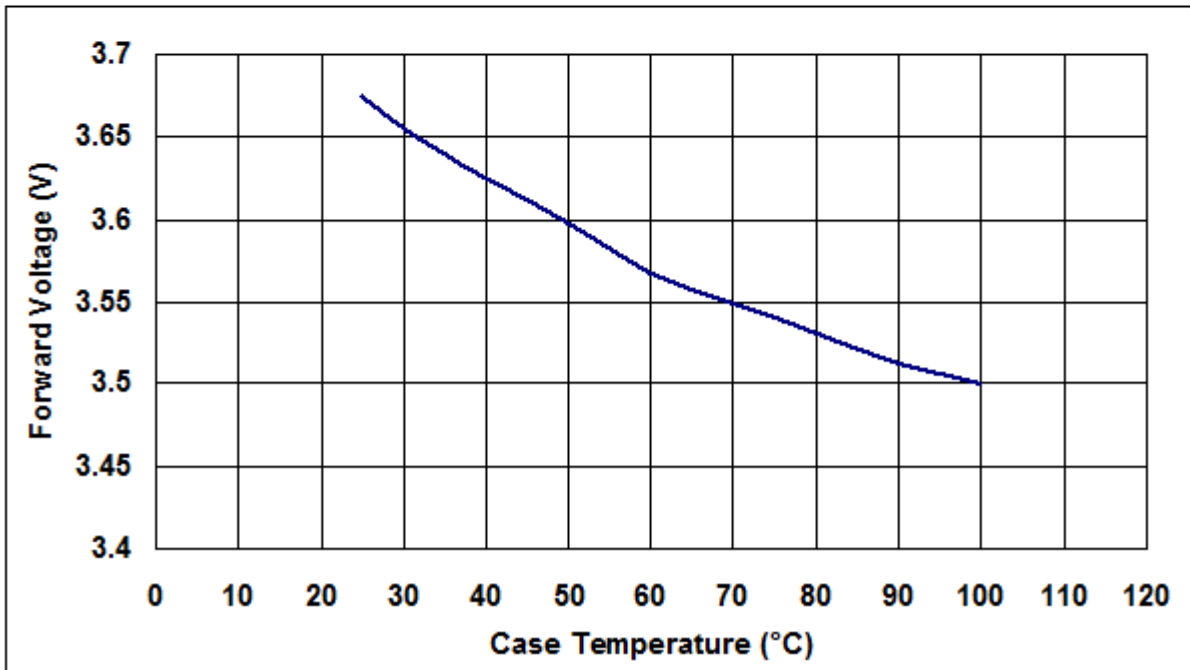


Fig. Forward Voltage vs. Case Temperature



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OPTICAL CHARACTERISTIC CURVES

Fig. Peak Wavelength shift vs. Case Temperature

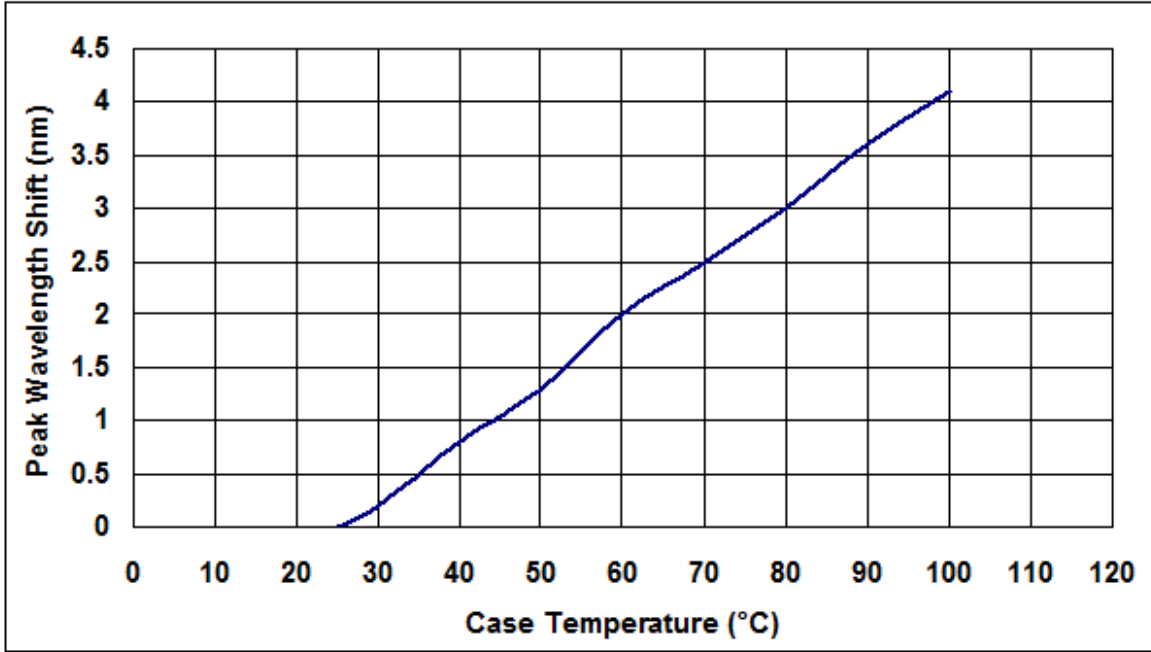
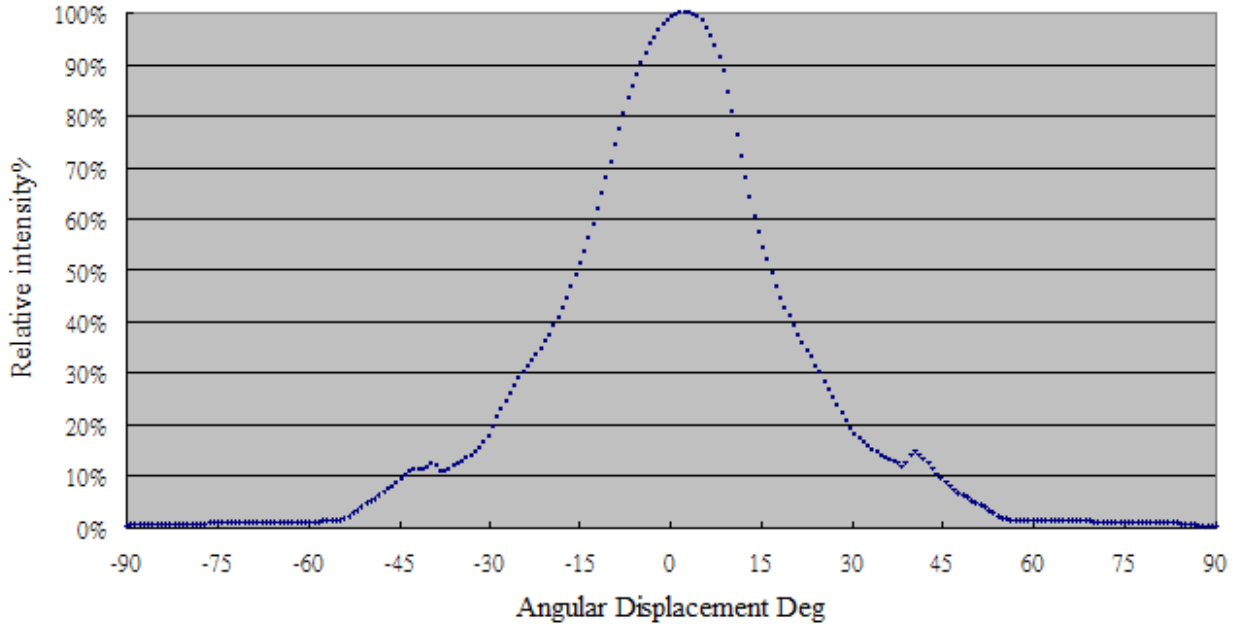


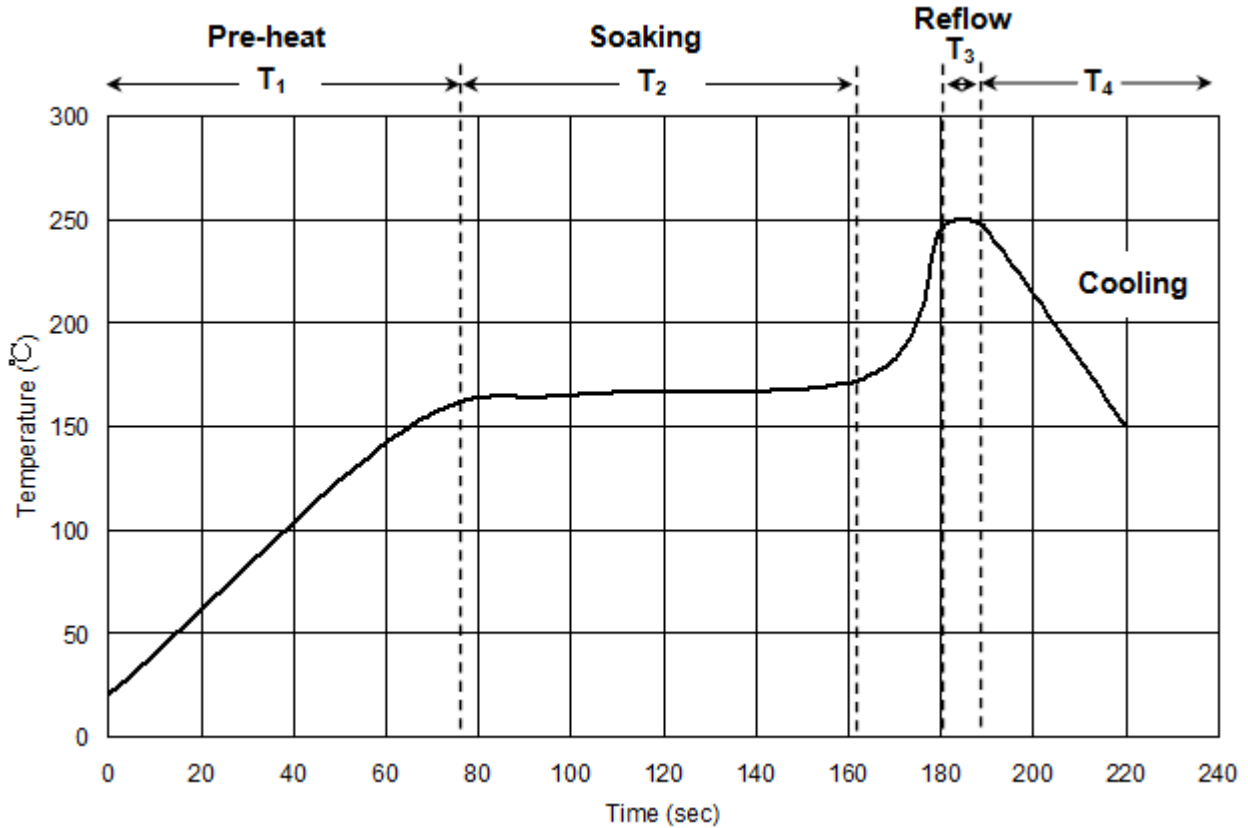
Fig. (30° Lens) Typical Representative Spatial Radiation Pattern

Typical Spatial Radiation Pattern



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REFLOW SOLDERING CHARACTERISTICS



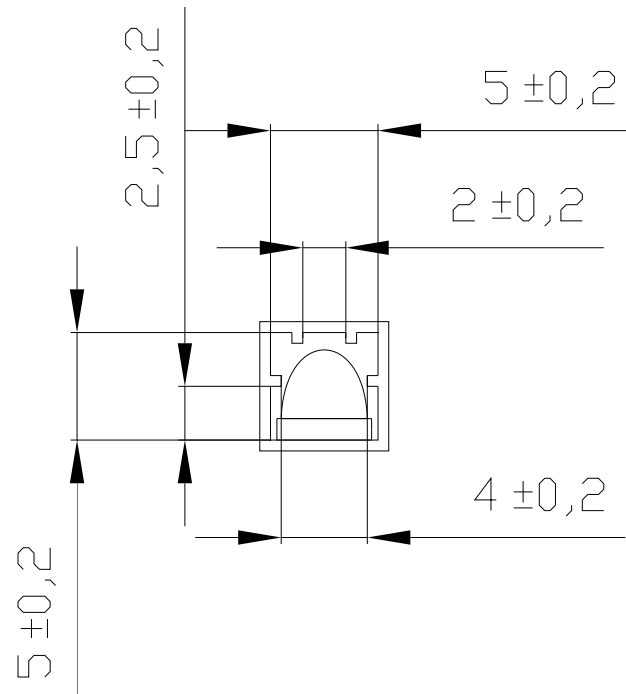
T1	Ramp up rate	1.0~3.0 °C/sec
	Pre-heat time	50~80 sec
T2	Soaking temperature	155~185 °C
	Dwell time during soaking	60~120 sec
T3	Reflow temperature	240~250 °C
	Reflow time	Max 10 sec
T4	Ramp up rate during reflow	1.2~2.3 °C/sec
	Cooling	1.0~6.0 °C.sec

Note: suggest using Sn96Ag3Cu0.5 lead free solder



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PACKAGE DIMENSIONS (Unit: mm)



Lens Type

30 Degree Lens Type:

- 1 Tube
- 1000 Max/Tube
- 950 Tube (Max)/Box



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