



# TH-UVxCOB250W14H6P-3236

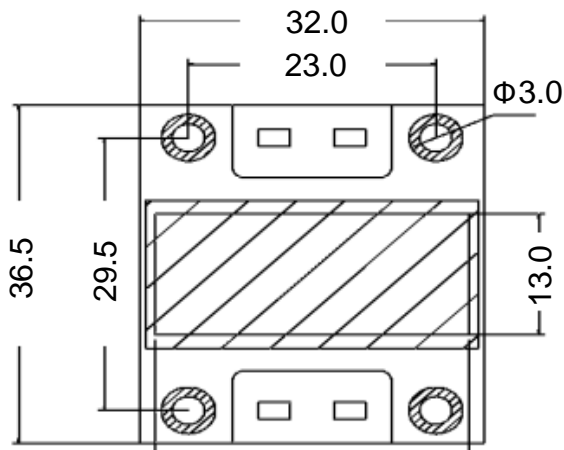


### CAUTION

OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES



## Mechanical Dimensions



Front Side



Side View

### Notes :

- [1] All dimensions are in millimeters.
- [2] Scale : none
- [3] Undefined tolerance is  $\pm 0.2\text{mm}$



## Performance Characteristics

Table 1 Electro - Optical characteristic

(T<sub>s</sub>=25°C, RH=30%)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Current	I <sub>F</sub>			4200	6000	mA
Forward Voltage <sup>[4]</sup>	V <sub>F</sub>	I <sub>F</sub> = 4200mA	48.0	--	54.0	V
Radiant Flux <sup>[2]</sup> H=1cm	Φ <sub>e</sub> <sup>[3]</sup>	I <sub>F</sub> = 4200mA	15000	--	20000	mW/cm <sup>2</sup>
		I <sub>F</sub> = 6000mA	20000	--	25000	mW/cm <sup>2</sup>
Peak Wavelength <sup>[1]</sup>	λ <sub>p</sub>	I <sub>F</sub> = 4200mA	380	--	390	nm
		I <sub>F</sub> = 4200mA	390	--	400	nm
		I <sub>F</sub> = 4200mA	400	--	410	nm
Viewing Angle	2 θ <sub>1/2</sub>	I <sub>F</sub> = 4200mA		120		deg.
Spectrum Half Width	Δλ	I <sub>F</sub> = 4200mA		11		nm

Table 2. Absolute Maximum Rating

Parameter	Symbol	Absolute maximum Rating	Unit
Forward Current	I <sub>F</sub>	6000	mA
Power Dissipation	P <sub>D</sub>	300	W
Operating Temperature	T <sub>opr</sub>	-30 ~ +60	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C

Notes :

1. Peak Wavelength Measurement tolerance : ±3nm
2. Radiant Flux Measurement tolerance : ± 10%
3. Φ<sub>e</sub> is the Total Radiant Flux as measured with an integrated sphere.
4. Forward Voltage Measurement tolerance : ±3%



### Characteristics Graph

Fig 1. Spectrum,  $T_s=25^{\circ}\text{C}$ ,  $I_F=4200\text{mA}$

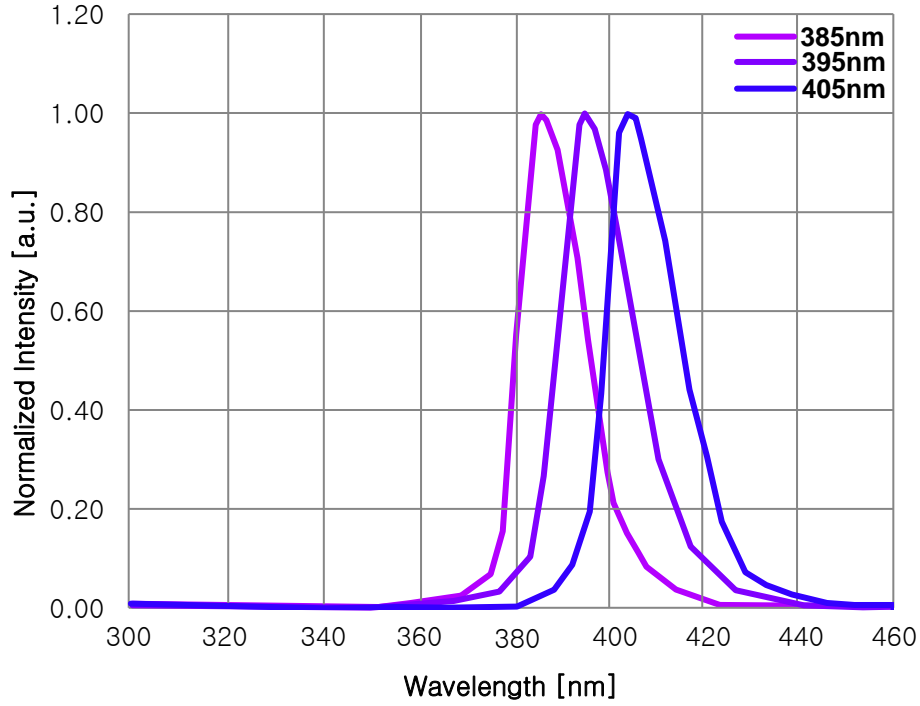
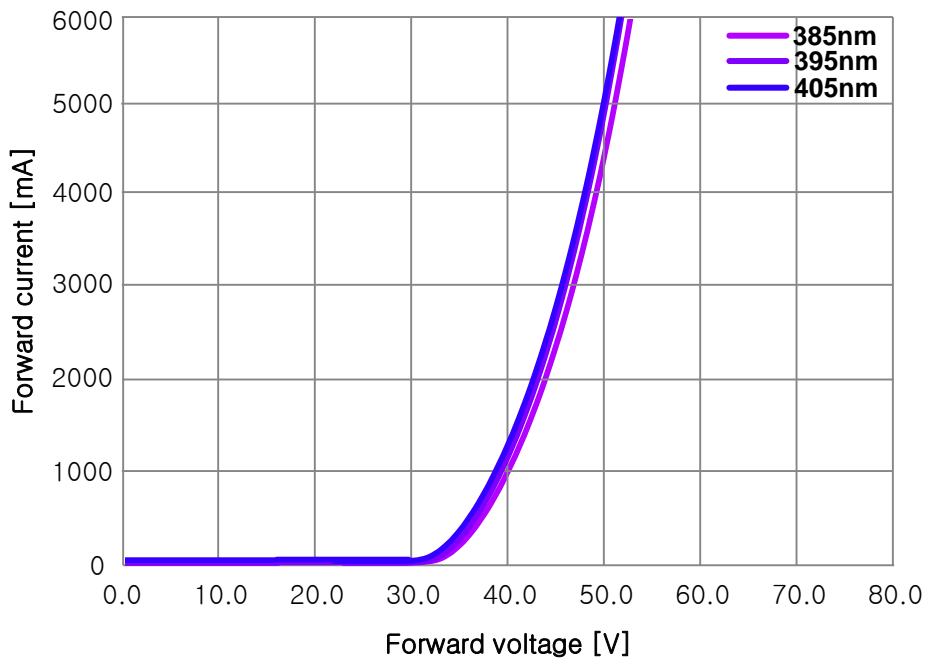


Fig 2. Forward Voltage vs. Forward Current,  $T_s=25^{\circ}\text{C}$



## Characteristics Graph

Fig 3. Forward Current vs. Relative Radiant Flux,  $T_s=25^{\circ}\text{C}$

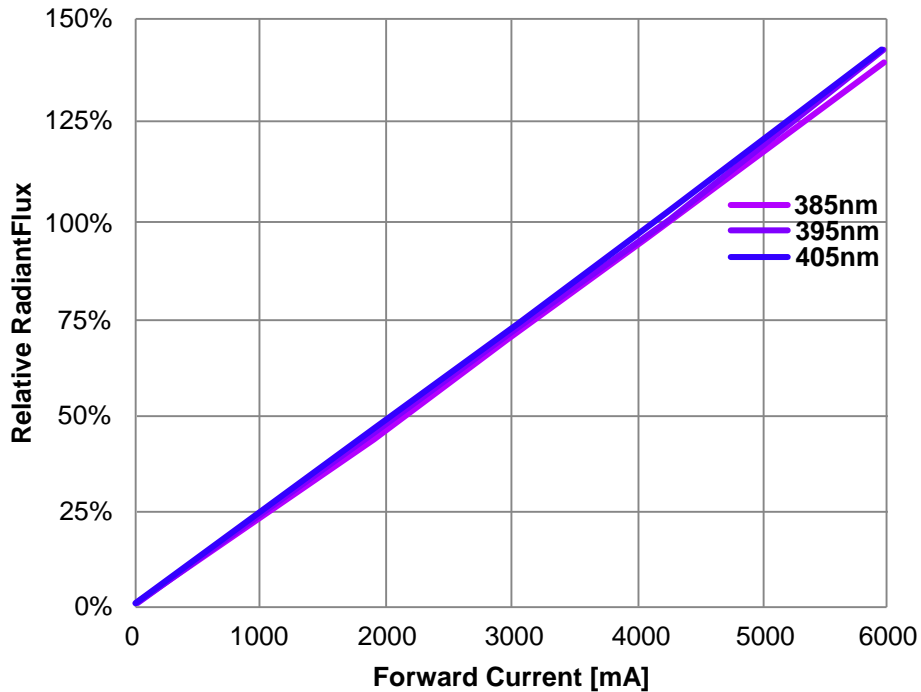
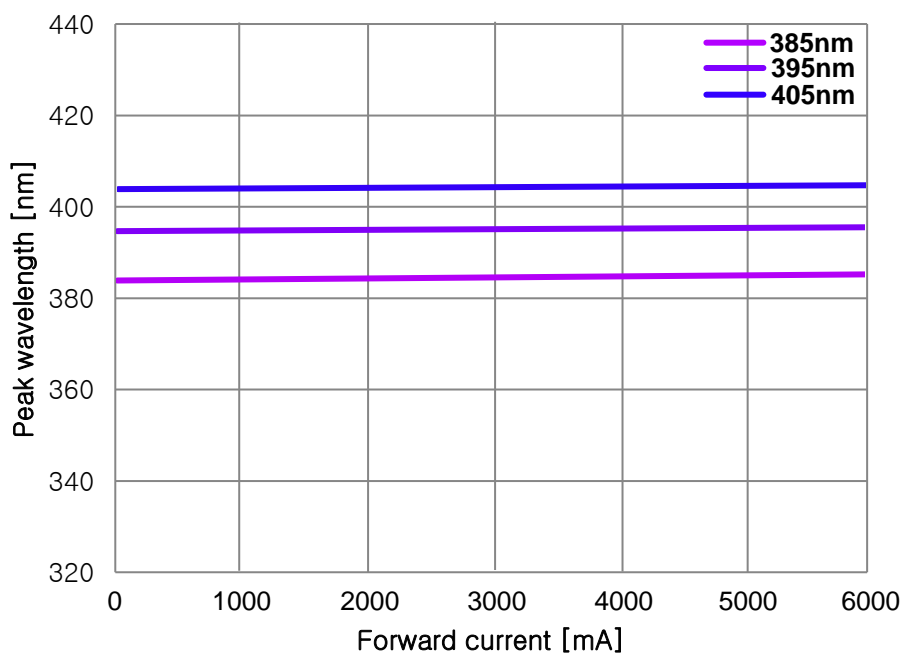


Fig 4. Forward Current vs. Peak Wavelength,  $T_s=25^{\circ}\text{C}$



## Characteristics Graph

Fig 5. Surface Temperature vs. Relative Radiant Flux,  $I_F=4200\text{mA}$

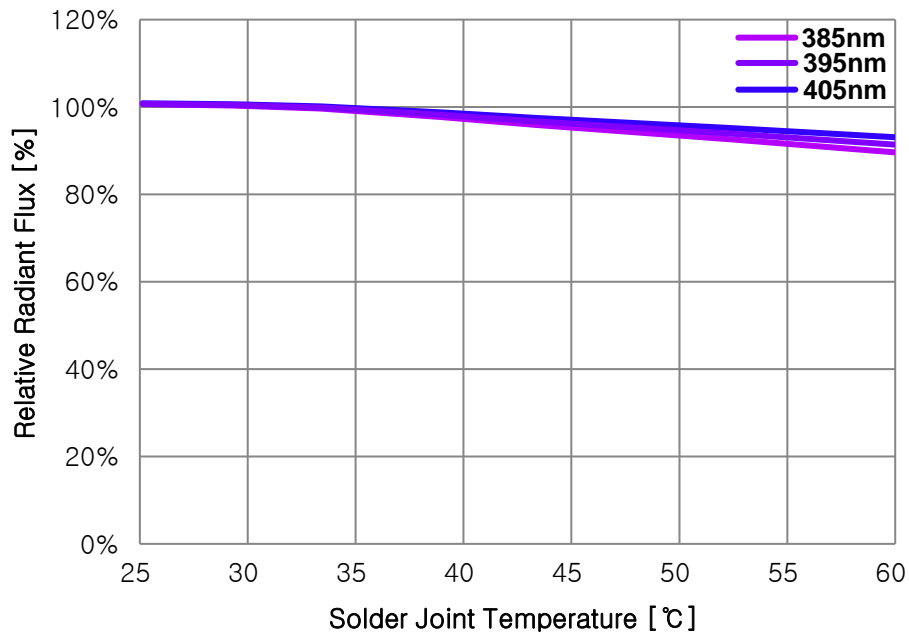
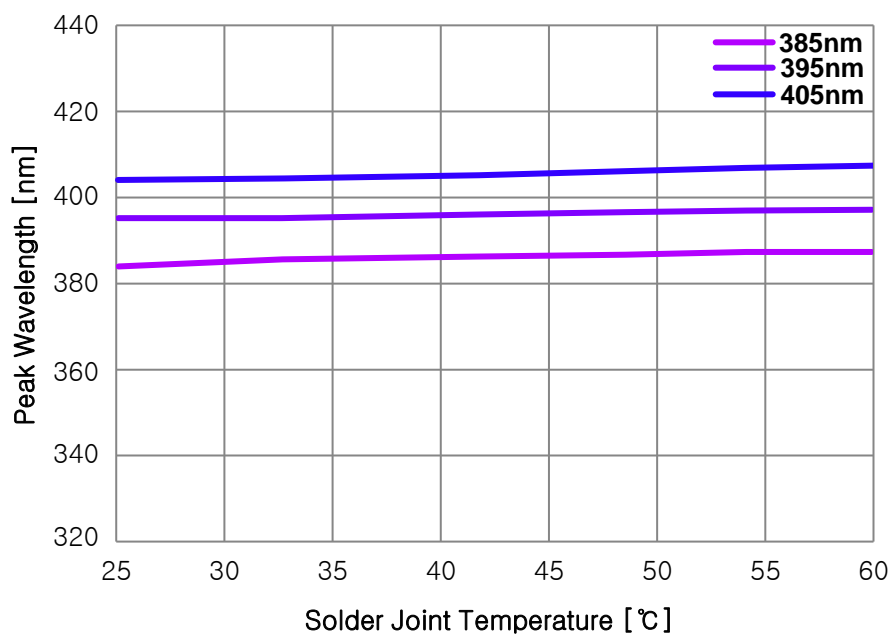


Fig 6. Surface Temperature vs. Peak Wavelength,  $I_F=4200\text{mA}$



## Characteristics Graph

Fig 7. Surface Temperature vs. Forward Voltage,  $I_F=4200\text{mA}$

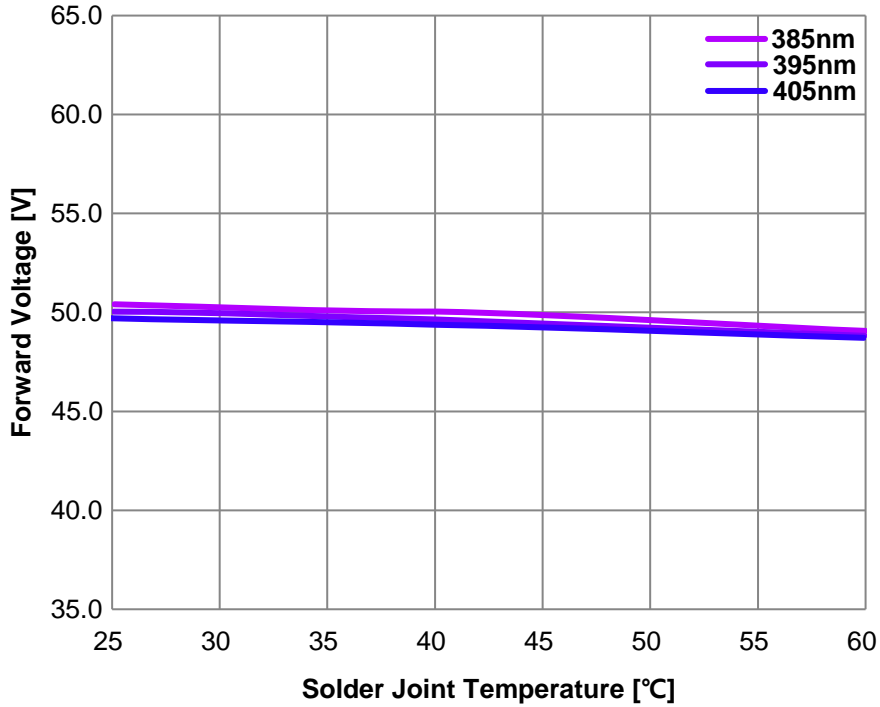
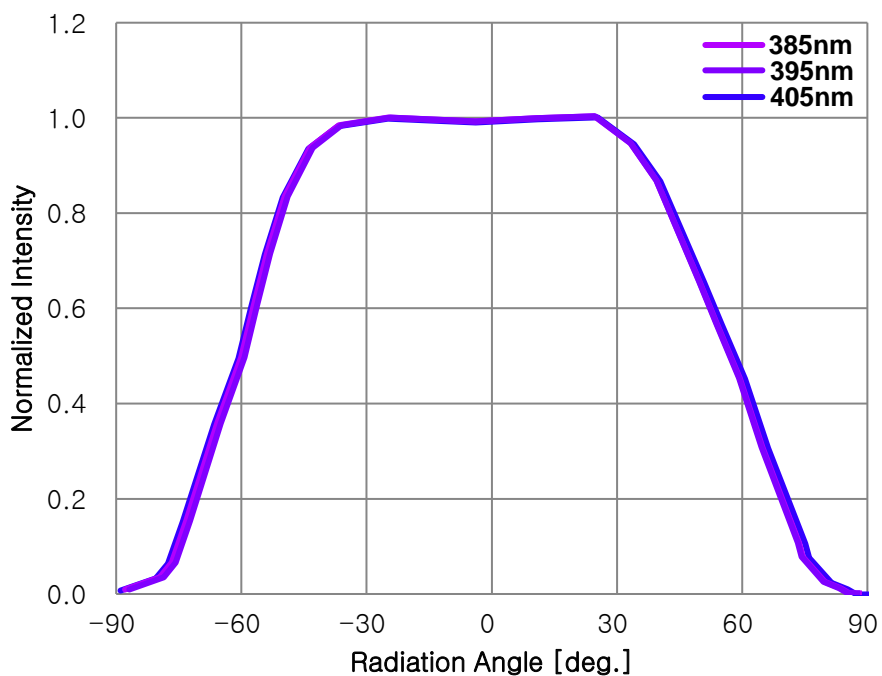
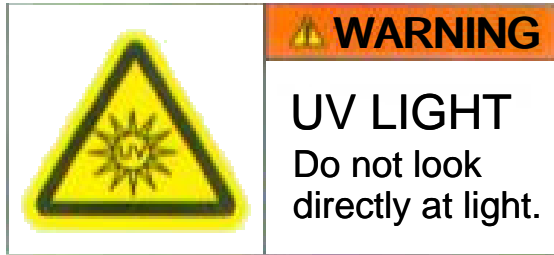


Fig 8. Typical Spatial Distribution,  $I_F=4200\text{mA}$





## Safety Precautions



The UV LED COB module emits a strong UV light in the UVA range. It is strongly recommended to use the appropriate eye and body protection while using the product and to follow the recommended safety and handling precautions.

Do not look directly into the UV module when it is operating.

Always wear a UV-proof face shield and cover all exposed skin while the UV module is in operation.

Hold the UV module so that the light beams are facing away from you.

Always turn off the device and unplug the power cord before handling the module.

Keep the module dry at all times.

For indoor use only.

Do not attempt to repair the product