

# Specification Sheet: Ultra Violet LED Chip

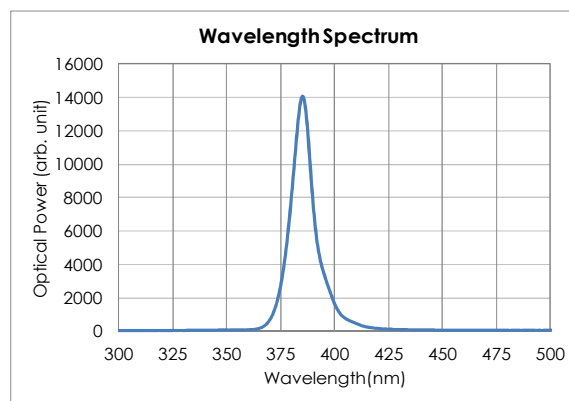
**Chip Model: UC4545F10-A1**

## 1) Optical and Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF1	If=350mA	3.2	3.4	3.6	V
Reverse Current	Ir	Vr=-5V	-	-	10	uA
Peak Wavelength	WP	If=350mA	380		390	nm
Optical Power	IV	If=350mA	Refer to Rank Information			mW

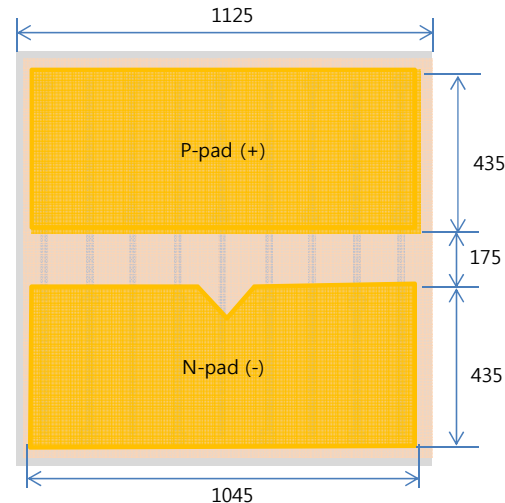
## 2) Rank Information (Bin Table)

Po (Optical Power)			
BIN	Min	Typ.	Max.
125	125	-	150
150	150	-	175
175	175	-	200
200	200	-	225



## 3) Description

Description	Dimension	Material
Chip Size (um)	1125 x 1125 ±30	
Emission Area (um)	1070 x 1070 ±30	GaN Based Material
Chip Thickness (um)	150 ±20	
P Bonding Pad (um)	1045 x 435 ± 15	Au
N Bonding Pad (um)	1045 x 435 ± 15	Au



## 4) Caution

- Don't look directly into the LED light. UV radiation can harm your eyes.
- To prevent even inadequate exposure, wear protective eyewear.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- LED chips are very sensitive to static and surge. All equipment and human bodies must be properly grounded.
- LED chips should be stored at normal temperature (15 ~ 35°C) and humidity(45 ~ 70%). LED chips can be stored for maximum 3 months.



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