

# Specification Sheet: Ultra Violet LED Chip

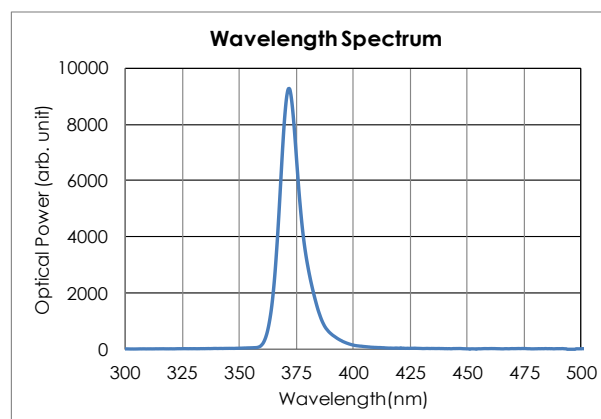
**Model: UC4020L20-A1**

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF1	If=120mA	3.4		3.6	V
Reverse Current	Ir	Vr=-5V	-	-	10	uA
Peak Wavelength	WP	If=120mA	370		380	nm
Optical Power	IV	If=120mA	Refer to Rank Information			mW

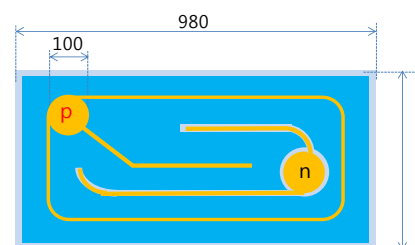
## 2) Rank Information (Bin Table)

Po (Optical Power)			
BIN	Min	Typ.	Max.
10	10	-	20
20	20	-	30
30	30	-	40
40	40	-	50



## 3) Description

Description	Dimension	Material
Chip Size	980um x 480 um ± 30um	
Emission Area	960um x 460 um ± 30um	GaN Based Material
Chip Thickness	140 um ± 20um	
P Bonding Pad	Φ100um ± 15um	Au
N Bonding Pad	Φ100um ± 15um	Au
Backside	Reflective layers	Al/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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