

# ULTRA VIOLET LED Chip

# NS375C-2SAA

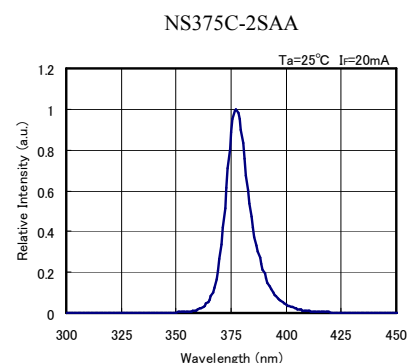
## (1) Optical and Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F=20\text{mA}$	3.2	3.6	4.2	V
Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	10	$\mu\text{A}$
Peak Wavelength*1	$\lambda_p$	$I_F=20\text{mA}$	375	-	380	nm
Full Width at Half Maximum	$\Delta\lambda$	$I_F=20\text{mA}$	-	12	-	nm
Optical Output Power*2	$P_o$	$I_F=20\text{mA}$	Refer to Rank Information			mW

\*1 Measurement error is  $\pm 2\text{nm}$ .

\*2 Optical output power is measured with a chip mounted on TO-18 header. (Measurement error: 10%)

## (3) Spectrum



## Rank Information

Rank	Optical Output Power*2			NS375C-2SAA
	Min.	Typ.	Max.	
7	3.5	-	4.0	
8	4.0	-	4.5	○
9	4.5	-	5.0	○
10	5.0	-	5.5	○
11	5.5	-	6.0	ask*3

\*3 Please contact us for availability.

## (2) Chip Description

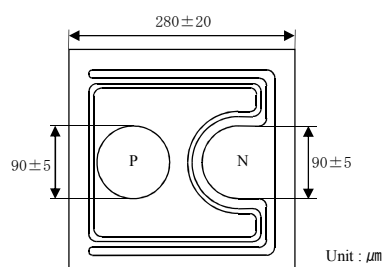
### Material

Substrate : Sapphire

Epitaxial Layer : GaN Based Material

N Bonding Pad Electrode : Au alloy

P Bonding Pad Electrode : Au alloy



## Mechanical Specification

Description	Dimension
Emission Area	$201\mu\text{m} \times 201\mu\text{m} \pm 5\mu\text{m}$
Bottom Area	$280\mu\text{m} \times 280\mu\text{m} \pm 20\mu\text{m}$
Chip Thickness	$120\mu\text{m} \pm 20\mu\text{m}$
N Bonding Pad Electrode	$90\mu\text{m}$
P Bonding Pad Electrode	$90\mu\text{m} (R=45)$
Electrodes Spacing	$128\mu\text{m} \pm 5\mu\text{m}$



### CAUTION

- LEDs emit very strong UV radiation.
- 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.
- Keep out of reach of children.
- LED chips are very sensitive to static and surge. Take a full protection from static.
- LED chips should be stored at normal temperature ( $5 \sim 35^\circ\text{C}$ ) and humidity ( $45 \sim 85\%$ ). LED chips can be stored for maximum 3 months.

Specification and dimension are subject to change for improvement without notice.