

# ULTRA VIOLET LED Chip

## NS375C-2SAA

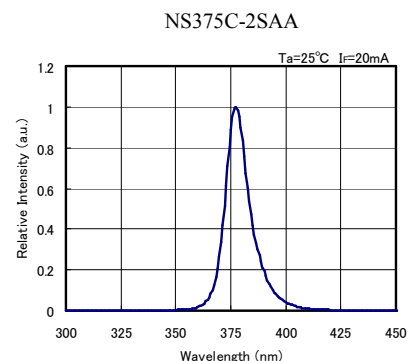
### (1) Optical and Electrical Characteristics (Ta=25°C)

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.	
5	2.5	-	3.0	○
6	3.0	-	3.5	○
7	3.5	-	4.0	-
8	4.0	-	4.5	○
9	4.5	-	5.0	○
10	5.0	-	5.5	Ask*

\*Please contact us for availability.

### (2) Chip Description

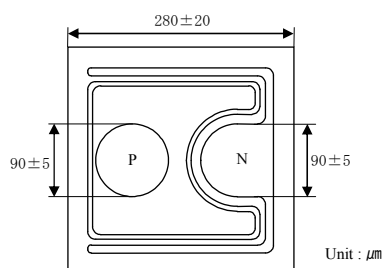
#### Material

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 $\mu\text{m}$ x 201 $\mu\text{m}$ $\pm$ 5 $\mu\text{m}$
Bottom Area	280 $\mu\text{m}$ x 280 $\mu\text{m}$ $\pm$ 20 $\mu\text{m}$
Chip Thickness	120 $\mu\text{m}$ $\pm$ 10 $\mu\text{m}$
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 (5~35°C) and humidity(45~85%). LED chips can be stored for maximum 3 months.

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