

ULTRA VIOLET LED Chip

NS365C-2SAA NS370C-2SAA

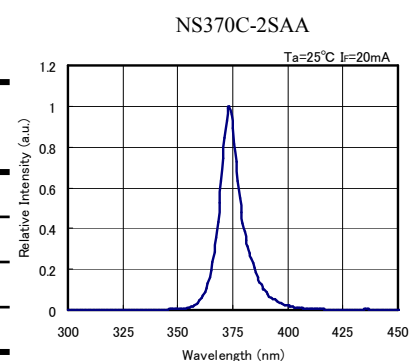
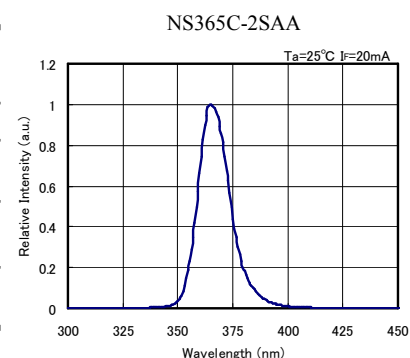
(1) Optical and Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	NS365C NS370C	V_F $I_F=20\text{mA}$	3.2	3.6	4.2	V
Reverse Current			I_R $V_R=5\text{V}$	-	-	10
Peak Wavelength*1	NS365C	λ_p $I_F=20\text{mA}$	363	-	370	nm
	NS370C		370	-	375	
Full Width at Half Maximum	NS365C	$\Delta\lambda$ $I_F=20\text{mA}$	-	15	-	nm
	NS370C		-	12	-	
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			NS365C-2SAA	NS370C-2SAA
	Min.	Typ.	Max.		
1	0.5	-	1.0	○	
2	1.0	-	1.5	○	○
3	1.5	-	2.0	○	○
4	2.0	-	2.5		○

*Please contact us for availability.

(2) Chip Description

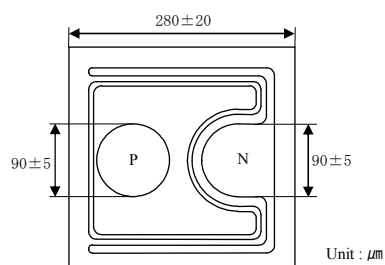
Material

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 μm x 201 μm \pm 5 μm
Bottom Area	280 μm x 280 μm \pm 20 μm
Chip Thickness	120 μm \pm 10 μm
N Bonding Pad Electrode	90 μm
P Bonding Pad Electrode	90 μm (R=45)
Electrodes Spacing	128 μm \pm 5 μm



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.

NITRIDE
SEMICONDUCTORS
Co.,Ltd.

NITRIDE SEMICONDUCTORS Co., Ltd.
115-7 Itayajima, Akinokami, Seto-cho,
Naruto-shi, Tokushima. 771-0360 JAPAN
TEL: +81-88-683-7750 FAX: +81-88-683-7751
URL: <http://www.nitride.co.jp> Mail: nitride@nitride.co.jp