

C365-2SR2

TECHNICAL DATA

UV LED, Chip Die

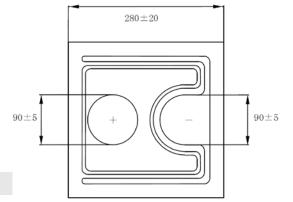
GaN

C365-2SR2 is a 280x280 μm UV LED chip die, based on GaN material. On forward bias, it emits a radiation of typical 1.0-1.5 mW at a peak wavelength of 365 nm.

Specifications

Structure: GaN based material
 Substrate: Sapphire
 Peak Wavelength: 365 nm
 Optical Output Power: 1.0-1.5 mW

Bottom Area: 280x280 μm ±20 μm
Electrodes: Au allov



Electro-Optical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V_{F}	$I_F = 20 \text{ mA}$	3.2	3.6	4.2	V
Reverse Current	I_R	$V_R = 5 V$	-	-	10	μA
Peak Wavelength *1	λ_{P}	$I_F = 20 \text{ mA}$	363	-	370	nm
Half Width	Δλ	$I_F = 20 \text{ mA}$	-	15	-	nm
Total Radiated Power	Po	$I_F = 20 \text{ mA}$	1.0	-	1.5	mW

^{*1} Measurement error: ±2 nm

Note: The above specifications are for reference purpose only and subjected to change without prior notice.

^{*2} Radiated Power is measured as chip mounted in TO-18 header; measurement error: 10%

^{*3} on request



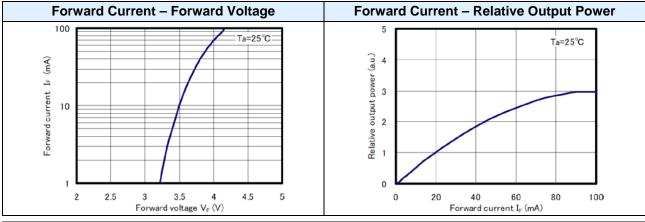
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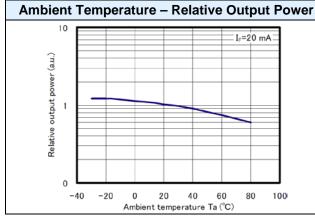
WIEDNER HAUPTSTRASSE 76

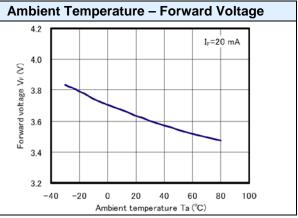
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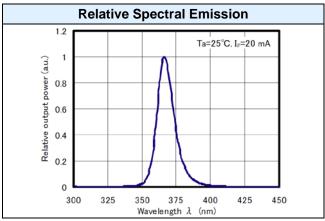


Typical Performance Curves









Note: Typical performance curves are depending on packaging method. The above data are for SMD packaged LEDs.

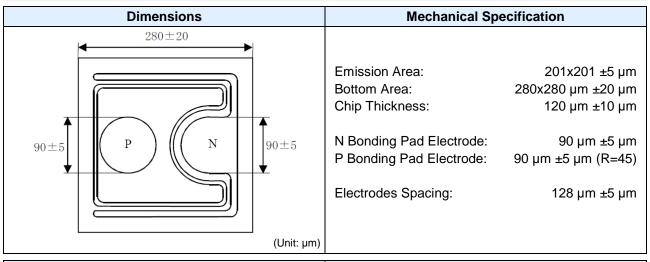


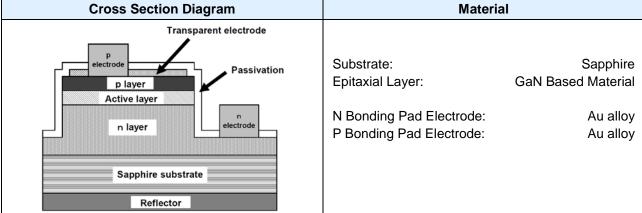
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Dimensions and Design



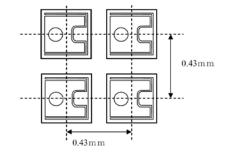


Package

Chips are attached on an arranging sheet.

Arranging sheet: Tecni tape T4, TECNISCO

Sheet size: 200x200 mm Adhesive side: the back of chips Arranging pitch: 0.43 mm



Inspection

- All chips will be inspected on each item of the electrical and optical characteristics (V_F, I_R, P_O, λ_P, Δλ).
- Verification of quantity: Calculated quantity of chips on an arranging sheet without shortage.



Precaution for Use

1. Cautions

- DO NOT look directly into the emitting area of the LED during operation!
- The LED is emitting UV radiation, which may harm your eyes. To prevent inadequate exposure of UV radiation, wear UV protective glasses.
- Please handle with care when taking out the chips on sheet.
- A UV light resistance paste for chip mounting is recommended.

2. Static Electricity

- The LEDs are very sensitive to Static Electricity and surge voltage. So it is recommended that a wrist band and/or an antielectrostatic glove be used when handling the LEDs.
- All devices, equipment and machinery must be grounded properly.
 It is recommended that precautions should be taken against surge voltage to the equipment that mounts the LEDs.

