RLCU-365

- UV SMD LED
- 365 nm, 12 mW
- 3020 Ceramic SMD package
- Beam Angle: ± 65°





Description

RLCU-365 is an ultraviolet surface mount LED, utilizing a AllnGaN based chip with a typical peak wavelength of 365 nm and optical output power of typically 12 mW. **RLCU-365** comes in 3020 ceramic SMD package with flat silicone resin mold.

Maximum Ratings*

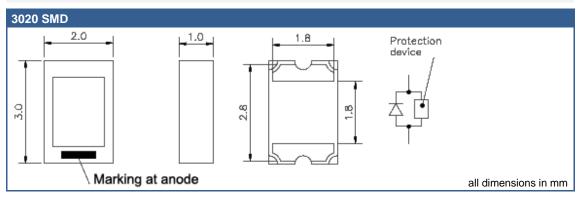
Parameter	Symbol	Valu	Unit				
rai ailletei		Min.	Max.	Onit			
Forward Current	IF		30	mA			
Pulse Forward Current (T _P =<100 µs, D=10%)	IFP		100	mA			
Reverse Voltage (I _R = - μA)	U R	not designe	not designed for reverse operation				
Thermal Resistance	RTHJA		60	K/W			
Operating Temperature	TCASE	- 40	+ 85	°C			
Storage Temperature	Tstg	- 40	+ 85	°C			
Soldering Temperature (t _{max} . 10s)	T _{SLD}		+ 250	°C			

^{*}Operating close to or exceeding these parameters may damage the device

Electro-Optical Characteristics (TCASE = 25°C)

Parameter	Symbol	Conditions	Values			Hnit
			Min.	Тур.	Max.	Unit
Peak Wavelength	λ_P	I _F =20 mA	363		370	nm
Half Width	λ_{Δ}	I _F =20 mA		8		nm
Forward Voltage	UF	I _F =20 mA		3.6	4.2	V
Output Power	Po	I _F =20 mA	7	12		mW
Beam Angle	2θ _{1/2}	I _F =20 mA		130		deg.

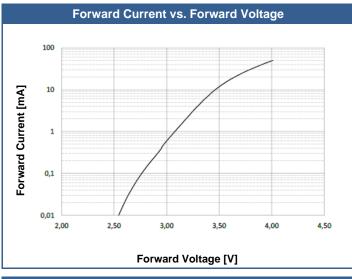
Outline Dimensions

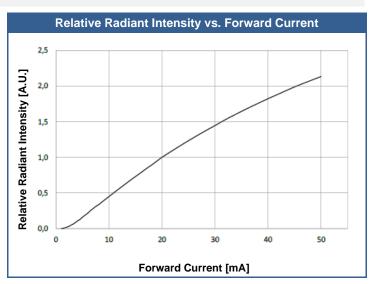


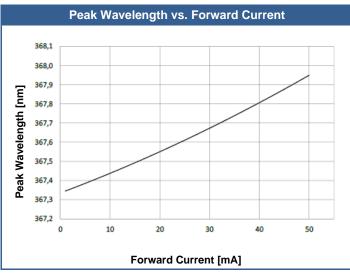
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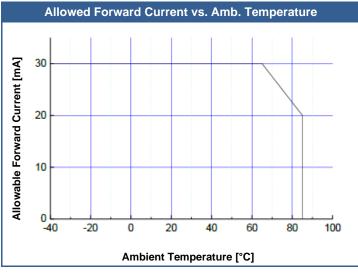


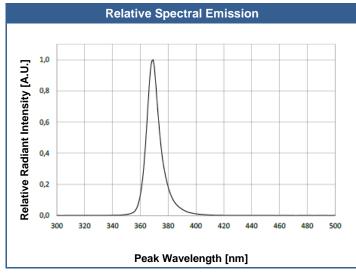
Typical Performance Curves

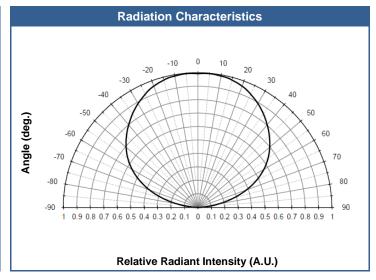










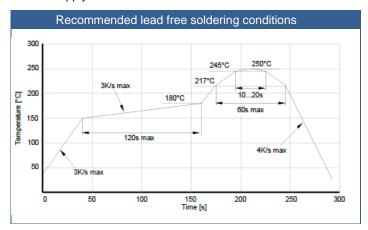


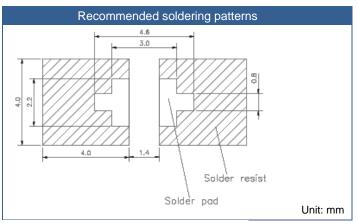
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General Notes

Soldering

- · Do avoid overheating of the LED
- Do avoid electrostatic discharge (ESD)
- Do avoid mechanical stress, shock, and vibration
- Do only use non-corrosive flux
- Do not apply current to the LED until it has cooled down to room temperature after soldering





Cleaning

- Cleaning with isopropyl alcohol, propanol, or ethyl alcohol is recommended
- DO NOT USE acetone, chloroseen, trichloroethylene, or MKS
- DO NOT USE ultrasonic cleaners

Static Electricity

- LEDs are sensitive to electrostatic discharge (ESD).
- Precautions against ESD must be taken when handling or operating these LEDs
- Surge voltage or electrostatic discharge can result in complete failure of the LED.

Radiation

- During operation these LEDs do emit light, which could be hazardous to skin and eyes, and may cause cancer.
- Do avoid exposure to the emitted light. Protective glasses if needed
- It is further advised to attach a warning label on products/systems.

Operation

- Do only operate LEDs with a current source.
- Running these LEDs from a voltage source will result in complete failure of the device.
- · Current of a LED is an exponential function of the voltage across it. Usage of current regulated drive circuits is mandatory.

Storage

- The maximum shelf life of LEDs in the originally sealed aluminum bag is 12 months.
- Before opening the aluminum bag, please store it at <30 °C, <60 % RH.
- After opening the aluminum bag, please solder the LEDs within 72 hours (floor life) at 5 30 °C, <50 % RH.
- Put any unused, remaining LEDs and silica gel back in the same aluminum bag and then vacuum-seal the bag.
- It is recommended to keep the re-sealed bag in a desiccator at <30%RH.

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

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