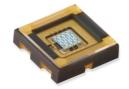


UVLED-365-NV3B

- Ultraviolet Light Emission Source
- 365 nm, 4.9 W
- 3535 Ceramic with Glass Lens
- ESD Protection Device





Description

UVLED-365-NV3B is a ultraviolet light emission source, typically emitting at **365 nm** with an optical output power of **4.9 W** and narrow bandwidth. The hermetically sealed ceramic SMD package features **low thermal resistance**. **UVLED-365-NV3B** comes with integrated ESD protection device.

Maximum Rating (TCASE = 25°C)

Parameter	Symbol	Val	Unit	
r ai ailletei		Min.	Max.	Onit
Power Dissipation	PD		19.6	W
Forward Current	I F		4.5	Α
Pulse Forward Current*	<i>I</i> FP		6.0	Α
Reverse Current	<i>I</i> _R		85	mA
Junction Temperature	T J		+ 100	°C
Operation Temperature	T_{OPR}	- 10	+ 85	°C
Storage Temperature	T _{STG}	- 40	+ 100	°C

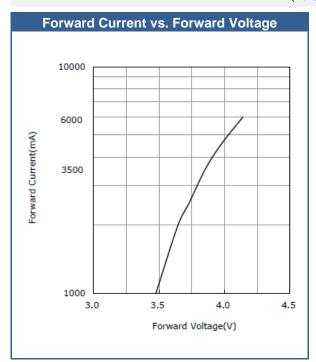
^{*} I_{FP} conditions with pulse width ≤10ms and duty cycle ≤10%

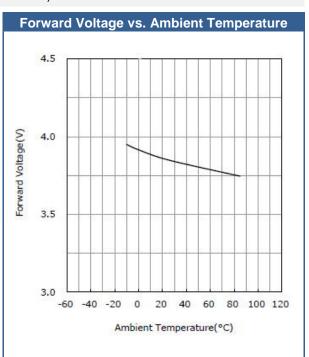
Electro-Optical Characteristics (TCASE = 25°C, IF = 3.5 A)

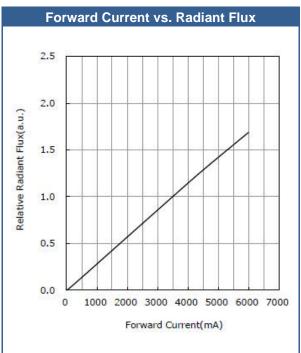
Parameter	Symbol	Values			Unit
		Min.	Тур.	Max.	Onit
Peak Wavelength	λ_{P}	360	365	370	nm
Radiated Power	Po	3.7	4.9	6.9	W
Spectral Width (FWHM)	$\Delta \lambda$		9		nm
Forward Voltage	V_{F}		3.85		V
Beam Angle	201/2		120		deg.
Thermal Resistance	Rth		1.7	2.1	°C/W

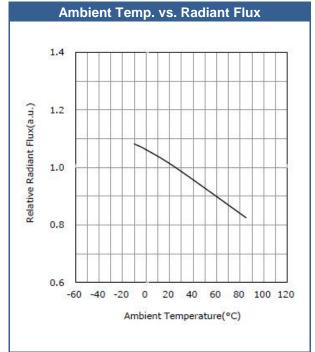


Performance Characteristics (TCASE = 25°C)

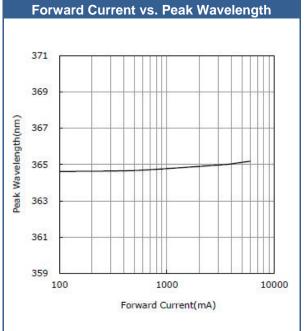


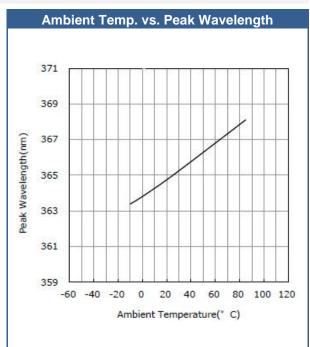


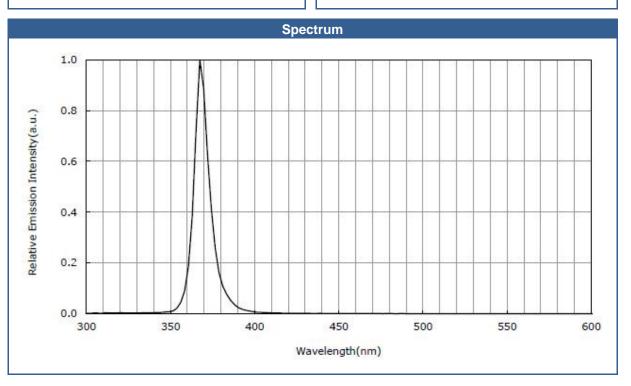




Performance Characteristics (TCASE = 25°C)

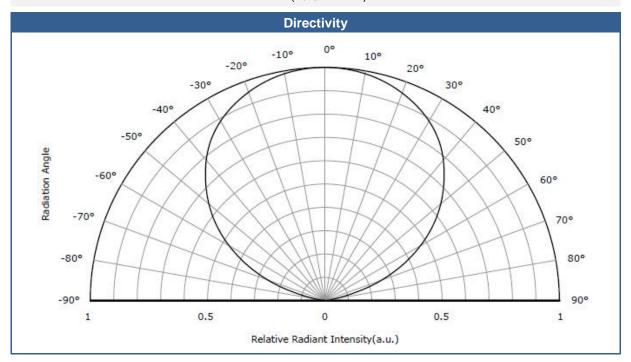






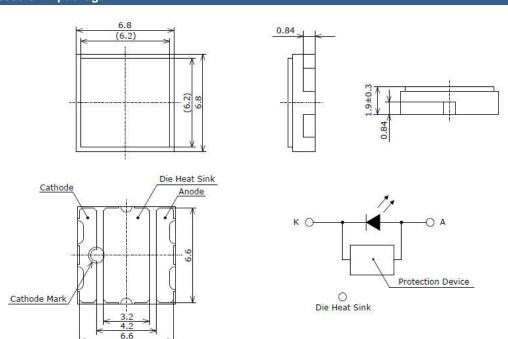


Performance Characteristics (TCASE = 25°C)



Outline Dimensions

3535 SMD package



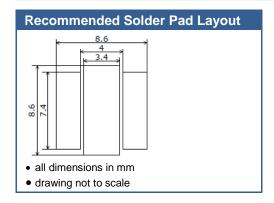
All dimensions in mm [in]

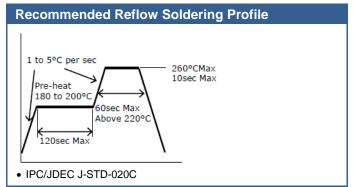
Device Materials

Pin #	Material
Package	Ceramics
Window	Hard Glass
Electrodes	Au-plated
Adhesive	Silicone



Soldering Information





Precautions for Use

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 device.

UV-Radiation:

During operation these LEDs do emit **high intensity ultraviolet light**, which is hazardous to skin and eyes, and may cause cancer. Do avoid exposure to the emitted UV light. **Protective glasses are recommended**. It is further advised to attach a warning label on products/systems that do utilize UV-LEDs:



Operation:

- Do only operate these LEDs with a current source.
 Current of a LED is an exponential function of the voltage across it. Usage o
 - Current of a LED is an exponential function of the voltage across it. Usage of current regulated drive circuits is mandatory.
- Compliance to the maximum electrical specifications is paramount.

Storage:

- Recommended storage temperature: ≤ 30 °C
- Recommended storage relative humidity: ≤ 70

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