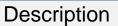


UVLED-365-750-SMD

- Ultraviolet Light Emission Source
- 365 nm, 750 mW @ 500 mA
- 6868 Ceramic with Flat Glass Window
- ESD Protection Device integrated





UVLED-365-750-SMD is an ultraviolet light emission source, typically emitting at 365 nm with an optical output power of 750 mW and narrow bandwidth. The hermetically sealed ceramic 6868 SMD package has low thermal resistance, and features a flat glass window. UVLED-365-750-SMD comes with integrated ESD protection device, and is intended for reflow soldering.

Maximum Rating (TCASE = 25°C)

Parameter	Symbol	Val	1124	
		Min.	Max.	Unit
Power Dissipation	PD		3.1	W
Forward Current	IF		700	mA
Pulse Forward Current*	I _{FP}		1000	mA
Reverse Current	<i>I</i> R		85	mA
Junction Temperature	TJ		+ 130	°C
Operation Temperature	TOPR	- 10	+ 85	°C
Storage Temperature	TSTG	- 40	+ 100	°C

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

Electro-Optical Characteristics (T_{CASE} = 25°C, I_F = 500 mA)

Parameter	Symbol	Values			Unit
		Min.	Тур.	Max.	Unit
Peak Wavelength	λP	360	365	370	nm
Radiated Power	Po		750		mW
Spectral Width (FWHM)	$\Delta \lambda$		9		nm
Forward Voltage	VF		3.8		V
Beam Angle	2 0 _{1/2}		120		deg.
Thermal Resistance	Rth		4.4	7.3	°C/W

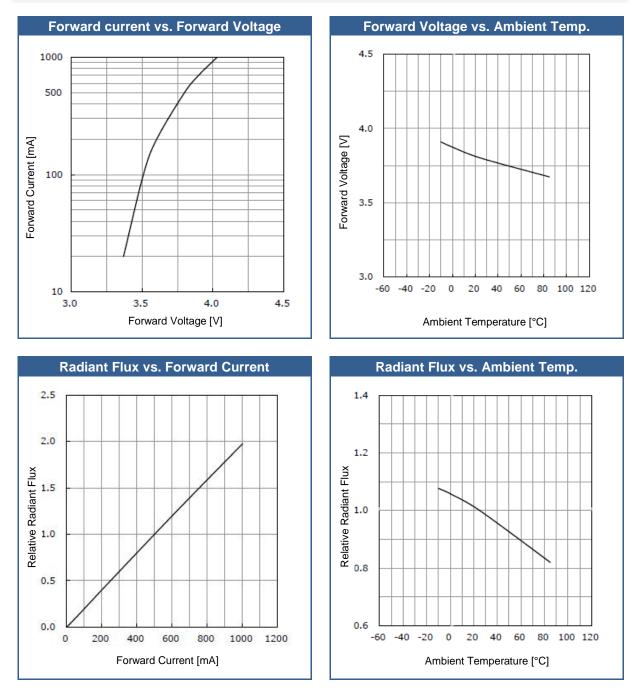




WARNING UV LEDS High intensity ultraviolet light Eye and skin hazard - avoid exposure to eyes/skin Do not look directly at light - use eye protection Use warning labels on systems containing UV LEDs

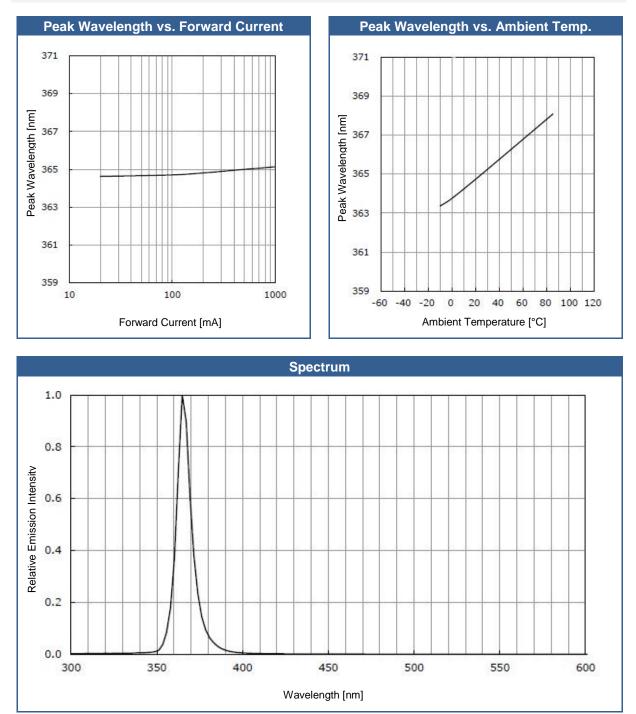


Performance Characteristics(TCASE = 25°C)



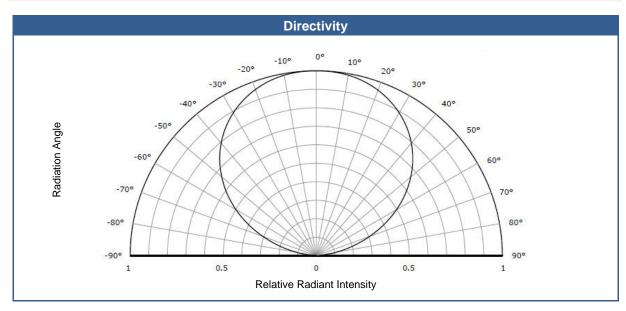


Performance Characteristics(TCASE = 25°C)

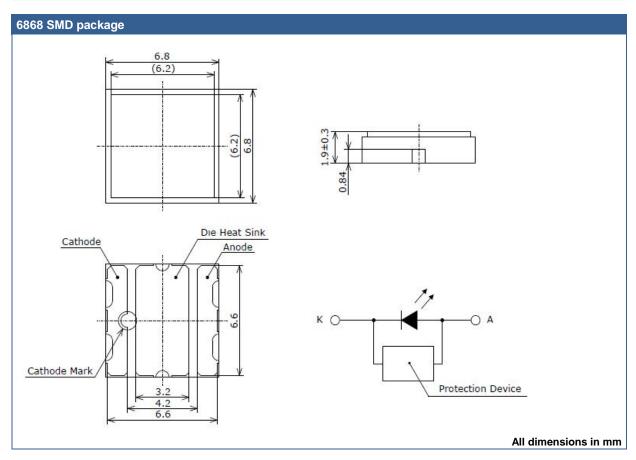




Performance Characteristics(T_CASE = 25°C)



Outline Dimensions



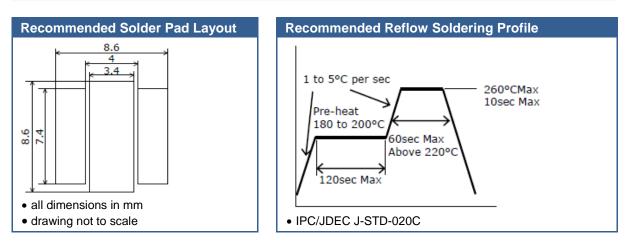


Device Materials

Pin #	Material
Package	Ceramics
Encapsulation	Glass Window
Electrodes	Au-plated



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 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: \leq 70 %

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