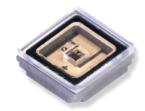
DUV340-SD351EV

- Deep Ultraviolet Light Emission Source
- 340nm, 14 mW @ 100 mA
- ESD protection
- Flat UV window
- Beam angle 120 deg.





Description

DUV340-SD351EV is an AlGaN based single emitter **DEEP-UV LED** with a typical peak wavelength of **340 nm** and an optical output power of typically **14 mW** @ **100 mA** in a sealed 3535 metal SMD package. It features an **integrated ESD protection** device and UV glass window. **DUV340-SD351EV** is ready for reflow soldering process, and can be delivered on tape. Wavelength binning is available on request

Absolute Maximum Ratings

Parameter	Symbol	min.	max.	Unit
Forward Current	<i>l</i> _F		150	mA
Junction Temperature	T J		90	°C
Operating Temperature	T _{OPR}	- 30	85	°C
Storage Temperature	T STR	- 40	85	V

Electro-Optical Characteristics (T_{CASE} = 25°C, I_F = 100 mA)

Parameter	Symbol				Unit
		min.	typ.	max.	Offic
Peak Wavelength*	λ_{P}	335	340	345	nm
Radiated Power**	Po	7	14		mW
Spectral Width (FWHM)	$\Delta \lambda$		15		nm
Forward Voltage	V _F		4.6	6.0	V
Viewing Angle	20 _{1/2}		120		deg.

^{*}Peak Wavelength measurement tolerance is ±3nm

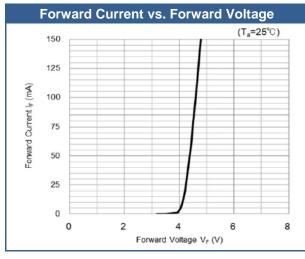
^{**}Radiated power measurement tolerance is ±10%

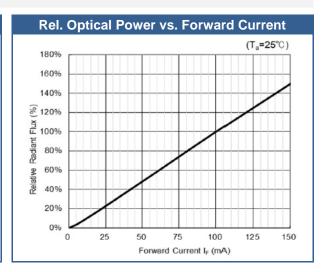


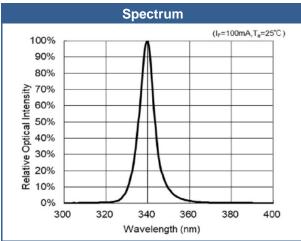
WARNING

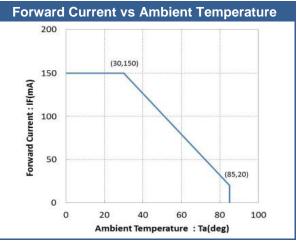
- · LEDs emit very strong UV radiation.
- Do not look at the LED light with the naked eye or irradiate the skin.
 UV radiation can harm your eyes and skin.
- To prevent UV radiation exposure, wear protective eyewear and protective equipment.
- $\cdot \ \text{If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.}$
- · Keep out of reach of children.

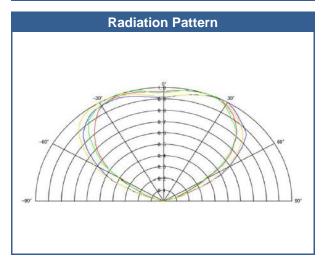
Performance Characteristics

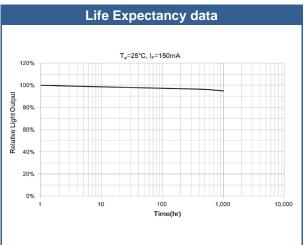




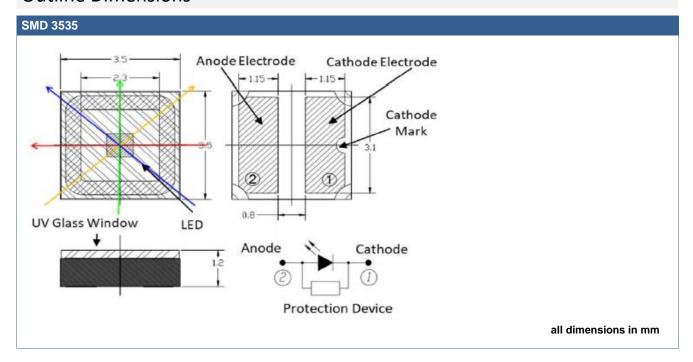




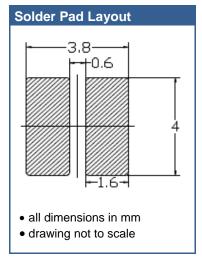


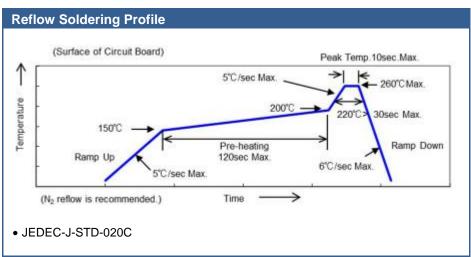


Outline Dimensions



Soldering Information





Accessories

SD35-PCB

A printed **Cu circuit board** with Ni finish and Au contact plates, designed for easily soldering and mounting the SD35 series LEDs. Ideally suited for prototyping and evaluation



Precautions

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 LEDs with a current source.

Operating 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