

DUV340-SD353EL-03

- Deep Ultraviolet Light Emission Source
- 340nm, 85 mW @ 350 mA
- ESD protection
- SiO₂ Lens
- Beam angle 70 deg.



RÓHS



DUV340-SD353EL-03 is an AlGaN based single emitter DEEP-UV LED with a typical peak wavelength of 340 nm and an optical output power of typically 85 mW @ 350 mA. It comes in a sealed 3535 SMD package with hemispherical quartz dome lens, and features an integrated ESD protection device. DUV340-SD353EL-03 is ready for reflow soldering process, and can be delivered on tape. A Cu circuit board (SD35-PCB) is available for convenient soldering/prototyping.

Absolute Maximum Ratings

Parameter	Symbol	min.	max.	Unit
Forward Current	lF		600	mA
Reverse Voltage	UR		5	V
Junction Temperature	TJ		90	°C
Operating Temperature	TOPR	- 30	85	°C
Storage Temp. (no condensation)	T _{STR}	- 40	85	V

Electro-Optical Characteristics (T_{CASE} = 25°C, I_F = 350 mA)

Parameter	Symbol	min.	typ.	max.	Unit
Peak Wavelength*	λP	335	340	345	nm
Radiated Power**	Po	65	85		mW
Spectral Width (FWHM)	$\Delta \lambda$		10		nm
Forward Voltage	VF	3.8		5.5	V
Viewing Angle	20 1/2		70		deg.

*Peak Wavelength measurement tolerance is ±3nm

**Radiated power measurement tolerance is ±10%

A WARNING



· Do not look at the LED light with the naked eye or irradiate the skin.

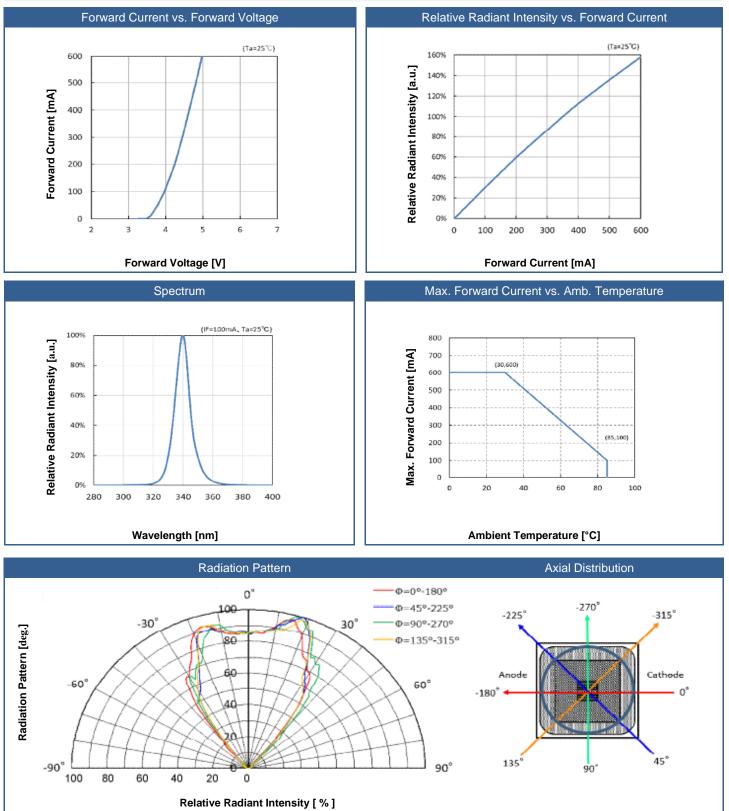
· UV radiation can harm your eyes and skin.

LEDs emit very strong UV radiation.

- · To prevent UV radiation exposure, wear protective eyewear and protective equipment.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.

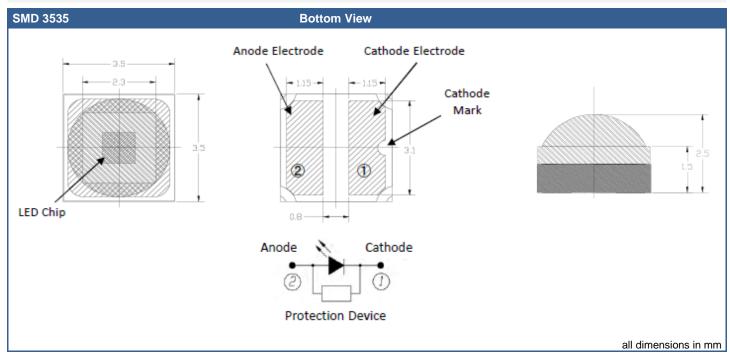


Typical Performance Curves

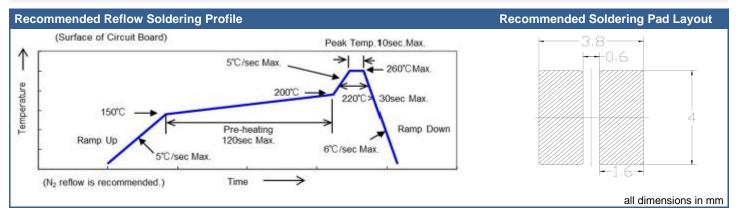




Outline Dimensions



Soldering



Accessories

SD35-PCB

Printed Cu circuit board with Ni finish and Au contact pads.

Designed for convenient soldering and mounting of SD35 series LED. Recommended 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.

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

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