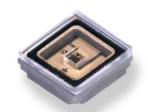
DUV340-SD353EV-03

- Deep Ultraviolet Light Emission Source
- 340nm, 90 mW @ 350 mA
- ESD protection
- Flat UV Glass Window
- Beam angle 120 deg.





Description

DUV340-SD353EV-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 **90 mW** @ **350 mA**. It comes in a sealed 3535 SMD package with **flat UV glass window**, and features an **integrated ESD protection** device. **DUV340-SD353EV-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	I F		600	mA
Reverse Voltage	<i>U</i> R		5	V
Junction Temperature	TJ		90	°C
Operating Temperature	T OPR	- 30	85	°C
Storage Temp. (no condensation)	T _{STR}	- 40	85	V

Electro-Optical Characteristics (TCASE = 25°C, IF = 350 mA)

Parameter	Symbol				Unit
		min.	typ.	max.	Offic
Peak Wavelength*	λ_{P}	335	340	345	nm
Radiated Power**	Po	70	90		mW
Spectral Width (FWHM)	$\Delta \lambda$		10		nm
Forward Voltage	V_{F}	3.8		5.5	V
Viewing Angle	20 _{1/2}		120		deg.

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

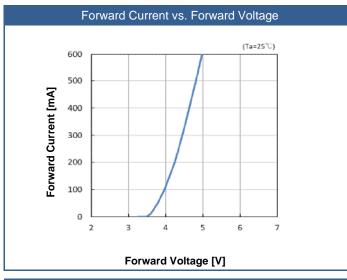
♠ WARNING

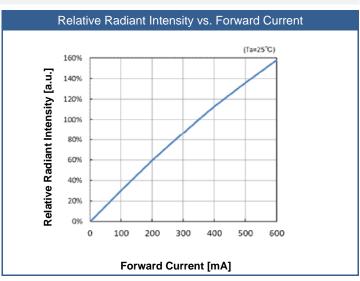


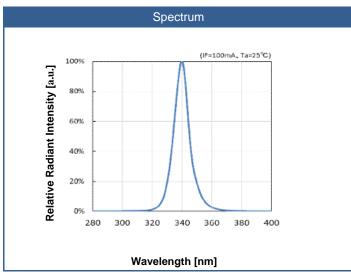
- LEDs emit very strong UV radiation.
- $\boldsymbol{\cdot}$ Do not look at the LED light with the naked eye or irradiate the skin.
- · UV radiation can harm your eyes and skin.
- · To prevent UV radiation exposure, wear protective eyewear and protective equipment.
- · If LEDs are embedded in devices,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

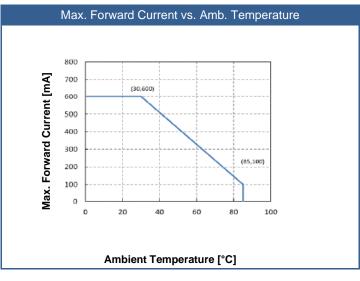
^{**}Radiated power measurement tolerance is ±10%

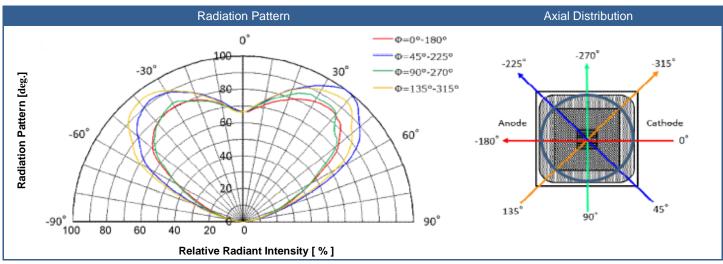
Typical Performance Curves





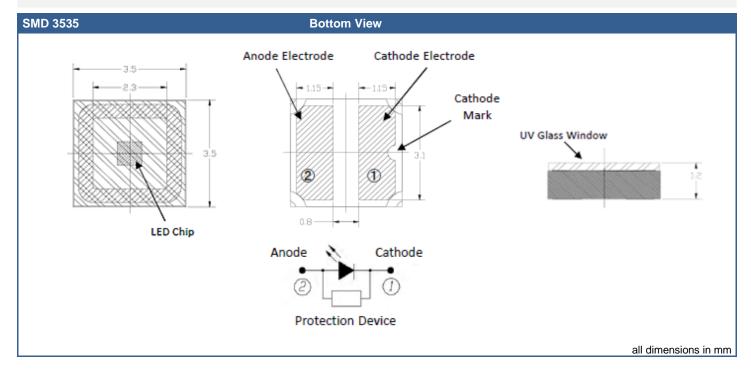




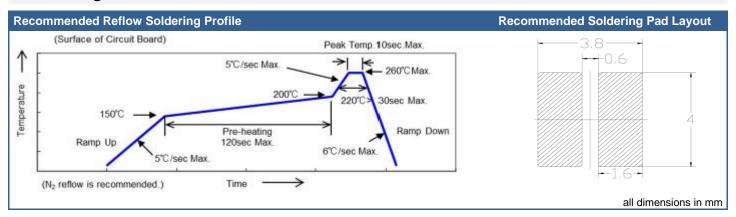




Outline Dimensions



Soldering

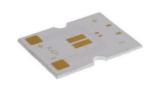


Accessories

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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