

# DUVxxx-SD353EL

- Deep Ultraviolet Light Emission Source
- 265 340 nm
- ESD protection
- SiO<sub>2</sub> lens
- Beam angle 65 deg.





### Description

**DUVxxx-SD353EL** is a series of **AIGaN** based single emitter **DEEP-UV LEDs** in a 3535 SMD package, is ready for reflow soldering process, and can be delivered on reel. It features an integrated ESD protection device and quartz glass window.

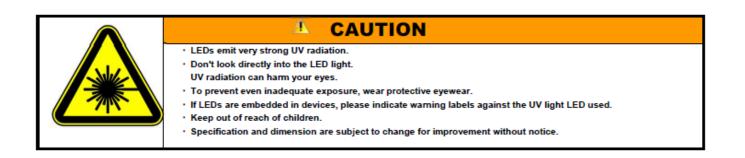
# Electro-Optical Characteristics I<sub>F</sub>=350mA (T<sub>CASE</sub> = 25°C)

Parameter	Symbol	DUV265- SD353EL	DUV275- SD353EL	DUV280- SD353EL	DUV295- SD353EL	Unit
Peak Wavelength	λP	265 ±5	275 ±5	280 ±5	295 ±5	nm
Radiated Power	Po	27	36	36	36	mW
Spectral Width (FWHM)	$\Delta \lambda$	11	11	11	11	nm
Forward Voltage	VF	6.0	6.0	6.0	6.0	V
Viewing Angle	<b>2⊖</b> <sub>1/2</sub>		deg.			
Parameter	Symbol	DUV308- SD353EL	DUV325- SD353EL	DUV340- SD353EL	1	Unit

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Peak Wavelength*	λP	308 ±5	325 ±5	340 ±5	/	nm
Radiated Power**	Po	54	45	68	1	mW
Spectral Width (FWHM)	$\Delta \lambda$	12	12	9	/	nm
Forward Voltage	VF	5.6	5.0	5.0	/	V
Viewing Angle	<b>20</b> 1/2		deg.			

\*Peak Wavelength measurement tolerance is ±3nm

\*\*Radiated power measurement tolerance is ±10%

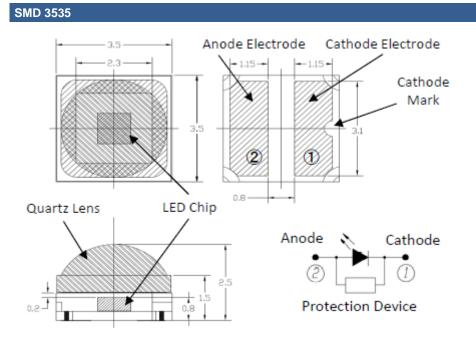




# **Performance Characteristics**

Please refer to the respective DUVxxx-353E datasheet for detailed performance characteristics

# **Outline Dimensions**



all dimensions in mm

# 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** 



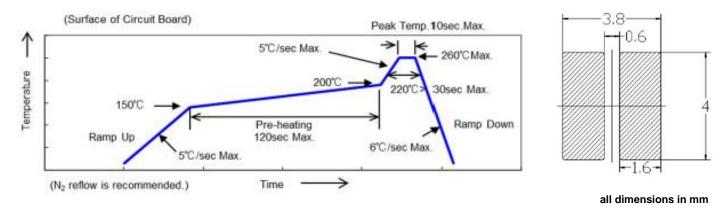


Precautions

#### Soldering

#### **Reflow soldering profile**

#### Recommended solder pad



#### 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:

#### **Static Electricity**

#### 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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