



Feature:

- Deep ultraviolet LED
- Ability to operate in low temperature
- The product itself will remain within RoHS compliant Version

Application:

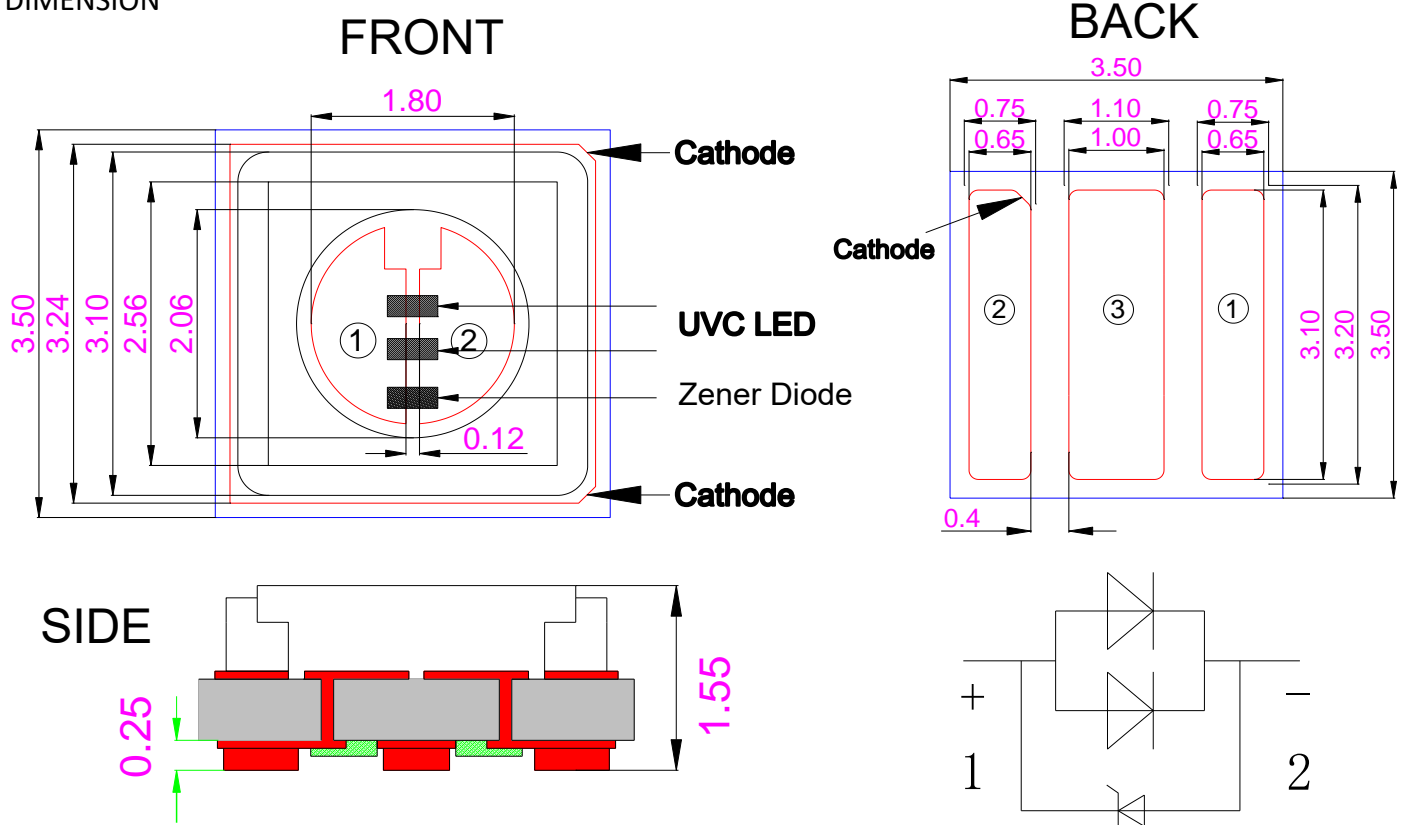
- UV Sterilization
- UV Detection

Certification & Compliance:

- ISO9001
- RoHS Compliant



DIMENSION



Notes:

1. All dimensions are in millimeters .
2. All dimensions tolerance is $\pm 0.25\text{mm}$ unless otherwise noted.

**Electrical / Optical Characteristic** (T=25 °C)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Radiometric Flux	I _e	10	--	15	mW	IF=100mA
Viewing Angle	2θ _{1/2}	--	120	--	Deg	IF=100mA
Peak Emission Wavelength	λ _p	265	275	285	nm	IF=100mA
Forward Voltage	V _F	5	--	8	V	IF=100mA

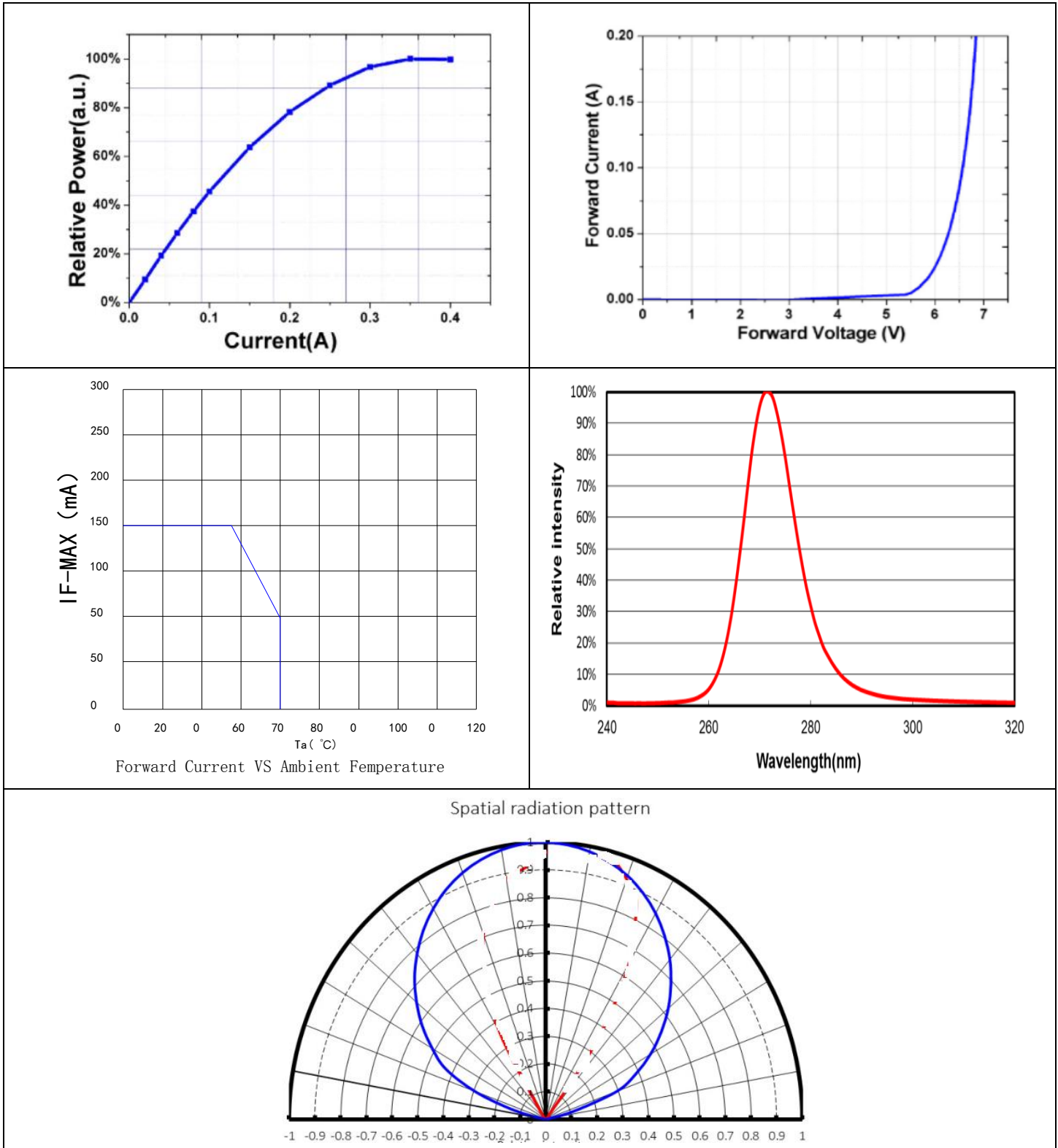
Absolute Maximum Rating

Parameter	Symbol	Absolute maximum Rating	Unit
DC Forward Current	I _F	150	mA
Max. ESD Resistance	V _B	2000	V
Reverse Voltage	V _R	Not designed to be driven in reverse bias	V
Power Dissipation	P _D	1.2	W
Operation Temperature	T _{op}	-30°C - 60°C	°C
Storage Temperature	T _{stg}	-40°C - 100°C	°C

1. For other ambient, limited setting of current will depend on de-rating curves.
2. When drive on maximum current , T_j must be kept below 70°C
3. Viewing angle(2θ_{1/2}) ±10°
4. Tolerance of ±10% on flux and power measurements



OPTICAL CHARACTERISTIC CURVES





Please read the following notes before using the product

1. Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

2.2 Before opening the package, the LEDs should be kept at 30 °C or less and 40%RH or less.

2.3 The LEDs should be used within a year.

2.4 After opening the package, the LEDs should be kept at 30 °C or less and 40%RH or less.

2.5 The LEDs should be used within 168 hours (7 days) after opening the package.

3. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 260 °C for 5 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

4. Soldering

When soldering, for Lamp without stopper type and must be leave a minimum of 3mm clearance from the base of the lens to the soldering point.

To avoided the Epoxy climb up on lead frame and was impact to non-soldering problem, dipping the lens into the solder must be avoided.

Do not apply any external stress to the lead frame during soldering while the LED is at high temperature.

5. Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.

6. Caution in ESD

Static Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices equipment and machinery must be properly grounded.

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Qualification Reliability Testing

Items	Test Conditions	Test Hours/Cycles	Sample Size
Room Temperature Operating Life(RTOL)	Ta = 25°C, If = 100mA	500 Hours	10 pcs
High Temperature Operating Life (HTOL)	Ta = 60°C, If = 100mA	500 Hours	10 pcs
Wet High Temperature Operating Life (WHTOL)	Ta = 60°C, RH = 90%, If = 100mA	500 Hours	10 pcs
Low Temperature Operating Life (LTOL)	Ta = -10°C, If = 100mA	500 Hours	10 pcs
High Temperature Storage Life (HTSL)	Ta = 85°C	500 Hours	10 pcs
Low Temperature Storage Life (LTSL)	Ta = -40°C	500 Hours	10 pcs
Temperature Cycle (TC)	-40°C(30min) ~ 85°C(30min)	500 Cycles	10 pcs
Moisture Sensitivity Level (MSL)	Tsld = 260°C (Pre treatment 60°C,60% 168 hours)	3 Times	10 pcs
Electrostatic Discharge	R = 1.5kΩ, C = 100pF, Test Voltage = 2kV, H.B.M.(Human Body Model)	3 Times Negative/ Positive	10 pcs
Vibration	100~2000~100Hz Sweep 4min. 200m/s ² , 3 directions	48 Minutes	10 pcs

Notes:

1. Depending on the maximum derating curve.

Item	Test Condition	Criteria for Judgement	
		Min.	Max.
Forward Voltage (V _F)	I _F = 100mA DC	--	Initial Level x 1.1
Luminous Flux or Radiometric Power (Φ _V)	I _F = 100mA DC	Initial Level x 0.7	--

* The test is performed after the LED is cooled down to the room temperature.

Part Numbering Code

S	3535	2	UVC	275	LR	01
SMD Type	Lead Frame Size	Chip qty	Color	Pd(watt)/nm/CCT	Chip Code	Version



Part Number Coding

CODING SCHEME

<u>X</u>	<u>XXXX</u>	<u>X</u>	<u>X</u>	<u>XXX</u>	<u>X</u>	<u>XX</u>
S - SMD Type P - PCB Type L - Lamp Type HP - High Power Type M - LED Module Type F - Fixture Type	Lead Frame Size	Chip Qty	Emitting Color - W - White B - Blue S - Sensor N - Not visible	Pd(watt)/nm/CCT Pd - 01 - 1W nm (ref.) - 365 - 365nm 470 - 470nm 660 - 660nm CCT - W - Warm White N - Netruel White C - Cool White	Chip Code	Version

Note

The information in this document provides generic information but for specific information on a product the appropriate product datasheet should be used.