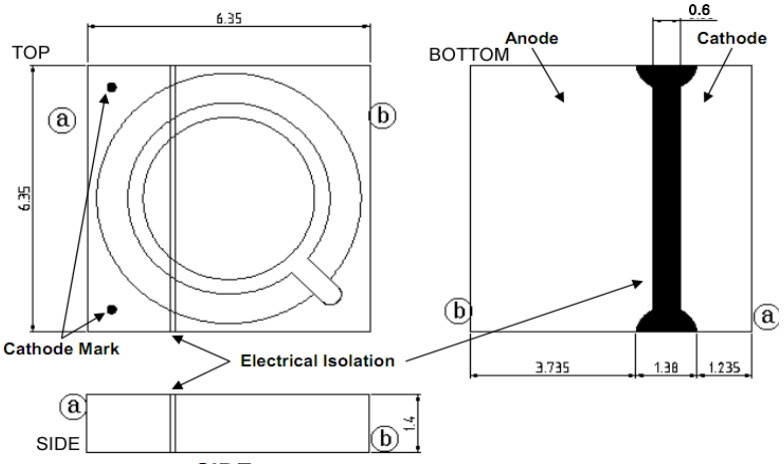
Specification:

This is a deep ultraviolet light emitting diode with peak emission wavelengths from 340nm to 345nm. The LED is sealed in full aluminum packages with a choice of UV-transparent optical window. It incorporates state of the art SMD design and low thermal resistance.

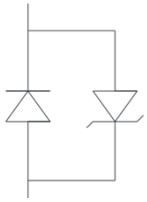
Features:

- Deep ultraviolet LED
- Low thermal resistanc
- SMT solderable
- Lead Free product
- RoHS compliant
- High Luminous intensity
- Long Operation Life
- Power Package

Outline dimensions:



Cathode



Anode

Notes :

[1] All dimensions are in millimeters.

[2] Scale : none

[3] Undefined tolerance is ±0.2mm

Characteristics

* Electro-Optical characteristics at 20mA

(Ta=25℃, RH=30%)

Parameter	Symbol	Value	Unit
Peak wavelength [1]	λp	340	nm
Radiant Flux[2]	Φe [3]	55	mW
Forward Voltage [4]	VF	4.3	V
Spectrum Half Width	Δ λ	11	nm

View Angle	2Θ1/2	110	deg.
Thermal resistance	RθJ-b[5]	8.3	℃ /W

* Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	IF	500	mA
Power Dissipation	PD	125	mW
Operating Temperature	Topr	-10 ~ +85	℃
Storage Temperature	Tstg	-40 ~ +100	℃

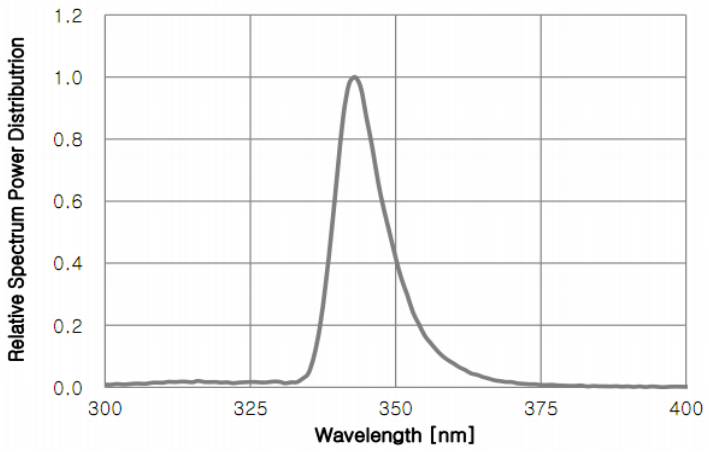
Notes :

1. Peak Wavelength Measurement tolerance : ±3nm
2. Radiant Flux Measurement tolerance : ± 10%
3. Φe is the Total Radiant Flux as measured with an integrated sphere.
4. Forward Voltage Measurement tolerance : ±3%
5. RθJ-bis the thermal resistance between chip junction to PCB board bottom. The PCB is made of aluminium and the size of PCB is 3.5mm by 3.5mm

Characteristic Diagrams

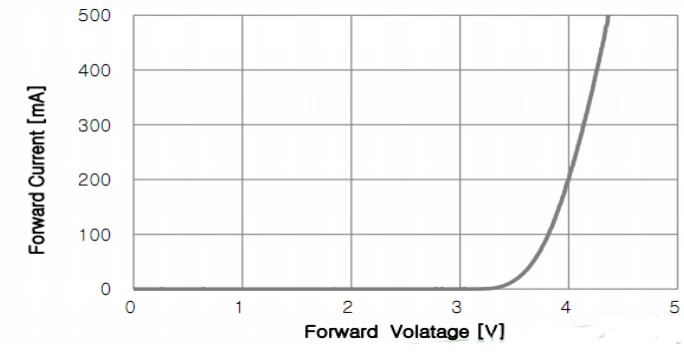
1. Relative Spectral Power Distribution

(IF=500mA, Ta=25℃, RH=30%)



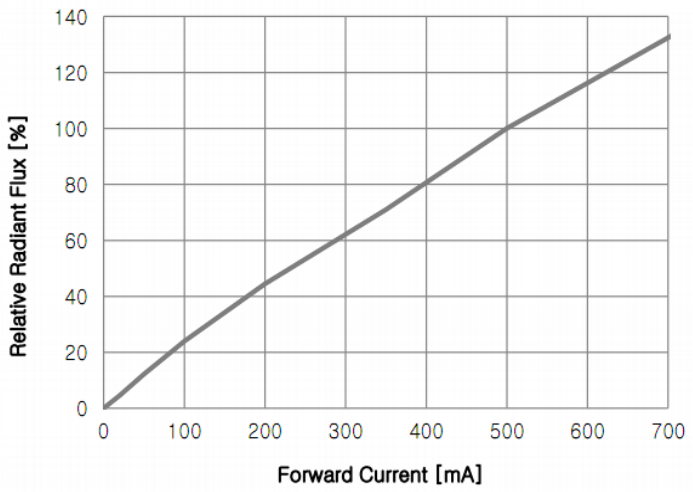
2. Forward Current VS Forward Voltage

(Ta=25℃)



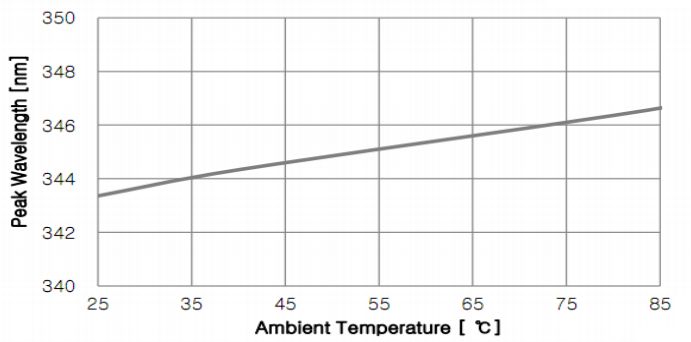
3. Relative Radiant Flux VS Forward Current

(Ta=25℃)

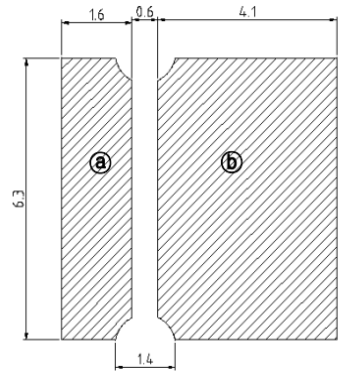


4. Peak Wavelength VS Ambient Temperature

(IF=500mA)



Recommended solder pad



ⓐ : Cathode ⓑ : Anode