

# UV LED LAMP SPECIFICATION

Drawn by	Checked by	Approved by

Rev. 0.0



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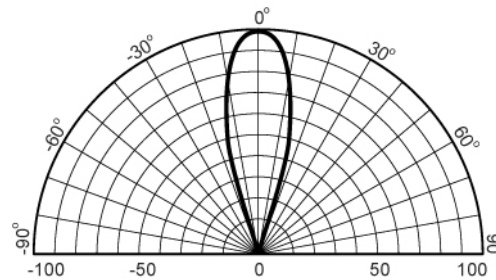


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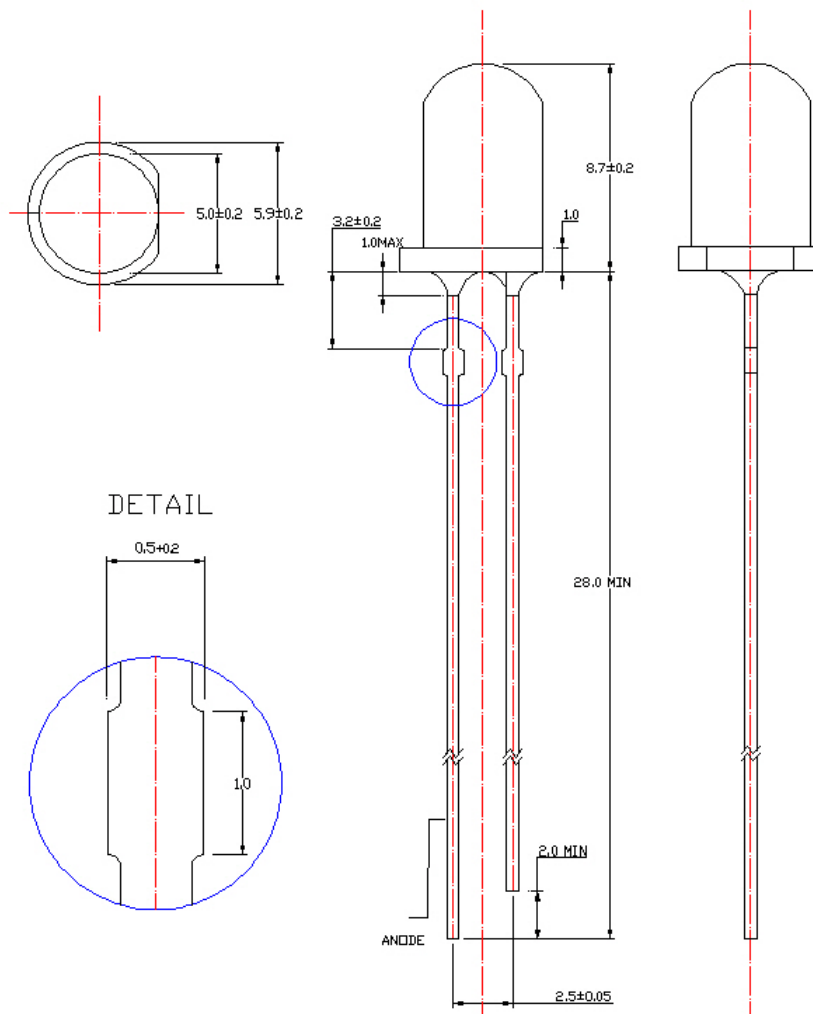
## ULP- UV41537A-30HU

### 1. Features

- 5.0mm dia round top lamp.
- UV resistant epoxy.
- Ultra violet.
- Water clear epoxy molding on lead frame..
- Pb-free.



### 2. Dimension



Unit : mm  
Tolerance : ± 0.25



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### 3. Absolute Maximum Ratings (Ta=25°C)

Parameter	Sym	Rating	Unit
Forward Current	IF	20	mA
Reverse Voltage	VR	-5	V
Power Dissipation	PD	76	mW
Operation Temp	Topg	-40 ~ +85	°C
Storage Temp	Tstg	-40 ~ +100	°C

### 4. Optoelectric Characteristics (Ta=25°C)

Parameter	Sym	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF = 20mA		3.50	3.80	V
Reverse Current	IR	VR = 5V			1.00	μA
Peak wave length	λP	IF = 20mA		415		nm
Line half width	Δλ	"			30	nm
Luminous Intensity	L	IF = 20mA		241		mcd
Radiant Intensity	IE	IF = 20mA		50		mW/sr
Total Radiant power	PO	IF = 20mA		5		mW

### 5. Soldering Conditions

Soldering Temp ≤ 260°C

Soldering Time ≤ 5 sec at location 3.0mm away from the base of the epoxy bulb.

### 6. Reliability Test

Test Item	Test Conditions	Note	Number of Damaged
Steady State Operating Life	Ta = 25°C IF=20mA	1000hrs	0/20
Steady State Operating Life of Low Temperature	Ta=-35°C, IF=20mA	240hrs	0/20
Steady State Operating Life of High Temperature	Ta=85°C, IF=20mA	240hrs	0/20
Resistance to soldering Heat	Tsld=260 ± 5°C, 10sec. 3mm from the base of the epoxy bulb	1 time	0/10
Temperature Cycle	Ta = -40°C ~ 100°C (1 Cycle = 1hr)	100 cycles	0/20



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### ■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

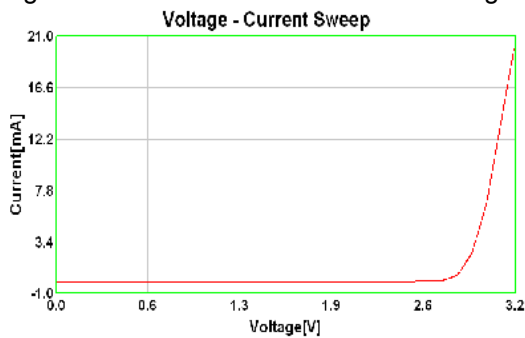


Fig 2. Relative Intensity(mcd) vs. Forward Current

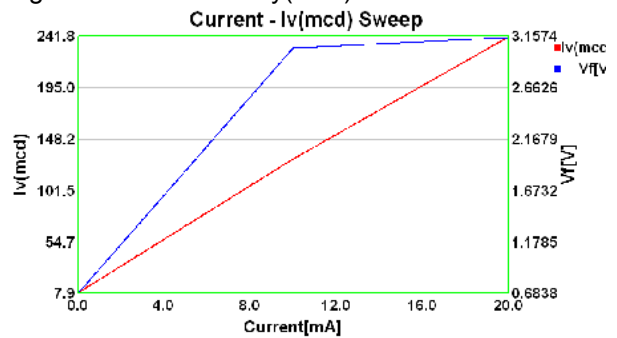


Fig 3. Relative Intensity(mW/sr) vs. Forward Current

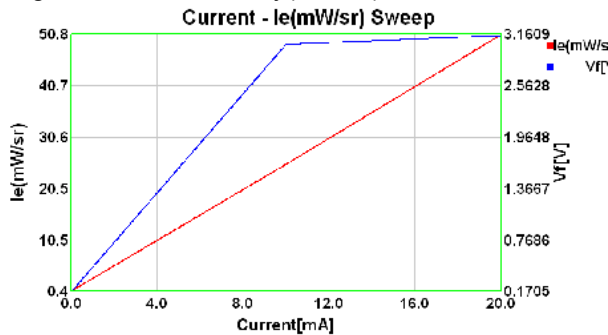


Fig 4. Relative Intensity(mW) vs. Forward current.

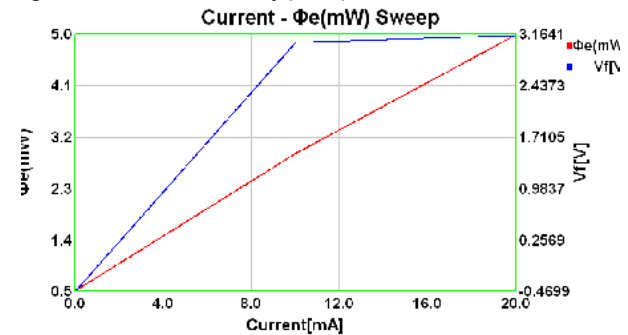


Fig 5. Relative Intensity vs. Wavelength

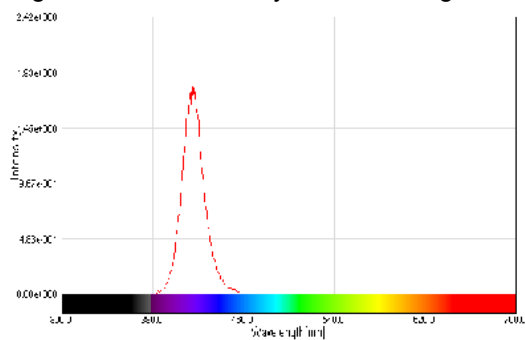


Fig 6. Relative Intensity vs. Temperature

