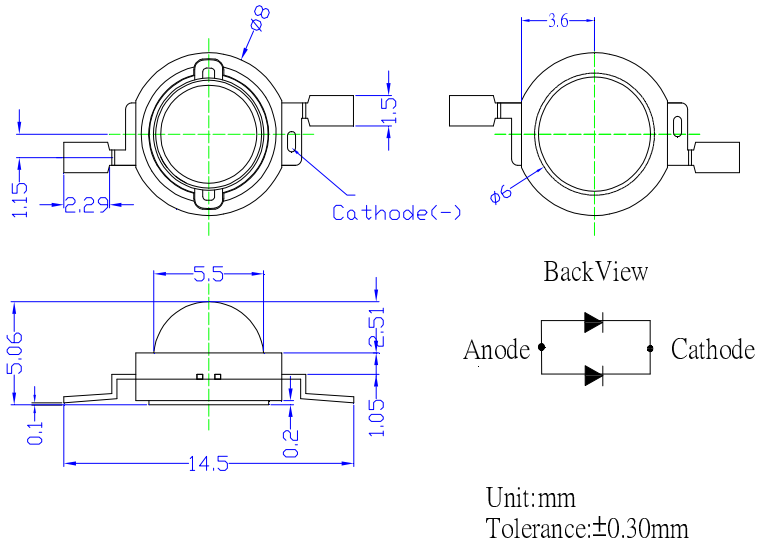|	
Xeon 5 Power Ultra Violet LED	
OSV3XDE5E1E	
VER C.1.1	

OptoSupply
Light It Up

■ **Features**
- Highest Luminous Flux
- Super Energy Efficiency
- Superior ESD protection
- Superior UV Resistance

■ **Applications**
- UV-Curing
- Sensor light
- Photo-catalyst
- Other Lighting

Cathode(-)

BackView

Anode — Cathode

Unit:mm
Tolerance:±0.30mm

■ **Absolute Maximum Rating**　　(Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I$_F$	1400	mA
Pulse Forward Current#	I$_{FP}$	2000	mA
Reverse Voltage	V$_R$	5	V
Power Dissipation	P$_D$	5600	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	℃

■**Directivity**
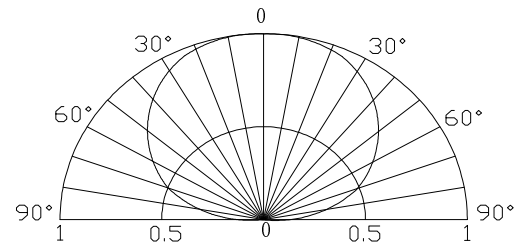
#Pulse width Max.10ms　Duty ratio max 1/10

■ **Electrical -Optical Characteristics**　　(Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V$_F$	I$_F$=700mA	3.0	3.3	4.0	V
		I$_F$=1400mA	3.5	3.8	4.5	V
DC Reverse Current	I$_R$	V$_R$=5V	-	-	20	μA
Peak Wavelength*	λ$_P$	I$_F$=1400mA	380	385	390	nm
Radiant Power*	P$_O$	I$_F$=1400mA	900	1000	-	mW
50% Power Angle	2θ$_{1/2}$	I$_F$=1400mA	-	140	-	deg

*1 Tolerance of measurements of Peak Wavelength is ±1nm
*2 Tolerance of measurements of Radiant Power is ±15%
*3 Tolerance of measurements of Forward Voltage is ±0.1V

Note: Don't drive at rated current more than 5s without heat sink for Xeon 5 emitter series.

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CNAS ISO 9001: 2008

RoHS Compliant EU2002/95/EC

REACH The new EU chemicals legislation

ATTENTION OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES

■ Handling of Silicone Lens LEDs

Notes for handling of silicone lens LEDs

● Please do not use a force of over 3kgf impact or pressure on the silicone lens, otherwise it will cause a catastrophic failure.

● The LEDs should only be picked up by making contact with the sides of the LED body.

● Avoid touching the silicone lens especially by sharp tools such as Tweezers.

● Avoid leaving fingerprints on the silicone lens.

● Please store the LEDs away from dusty areas or seal the product against dust.

● When populating boards in SMT production, there are basically no restrictions regarding the form of the pick and place nozzle, except that mechanical pressure on the silicone lens must be prevented.

● Please do not mold over the silicone lens with another resin. (epoxy, urethane, etc)

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