OptoSupply
Light It Up

Xeon Power Pure White HV AC LED 3W 50V

OSWWH2E3E1E

VER.A.2

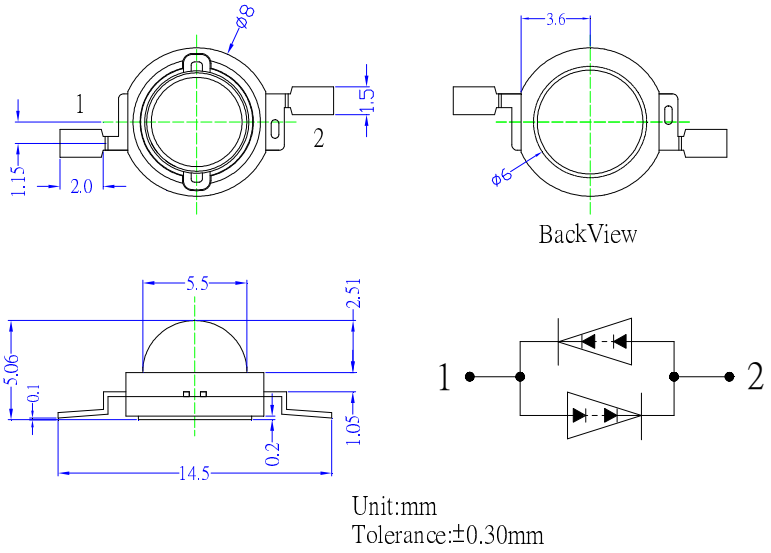
■Features

- Highest Luminous Flux
- Super Energy Efficiency
- Long Lifetime Operation
- Superior ESD protection
- LED cells connected in series
- Need extra resistor
- For high voltage/low current applications

■Applications

- Read lights
- Lighting
- Other

■Outline Dimension



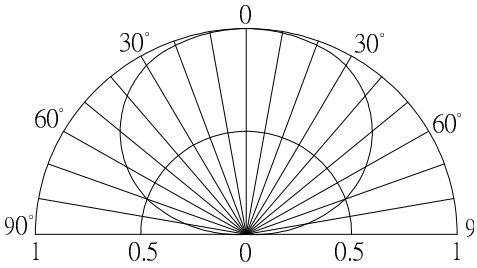
Unit:mm
Tolerance:±0.30mm

■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
AC Current	I	60	mA
Pulse Current*	I_P	100	mA
Power Dissipation	P_D	3.1	W
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

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

■Directivity

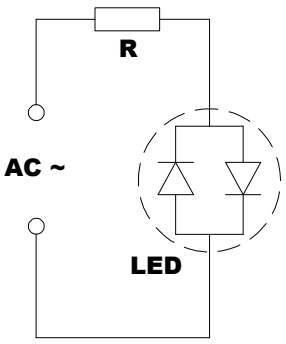


■Electrical -Optical Characteristics (Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
AC Voltage	V	I=60mA	44	46	52	V
Luminous Flux	Φv	I=60mA	160	170	-	lm
Color Temperature	CCT	I=60mA	-	6500	-	K
Chromaticity Coordinates*	x	I_F=60mA	-	0.31	-	-
	y	I_F=60mA	-	0.33	-	-
50% Power Angle	2θ1/2	I_F=60mA	-	140	-	deg

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

■Applications Diagram



■ 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)