# Hebei I.T. (Shanghai) Co., Ltd.

SPECIFICATION

Part No.： 10VAC30DW6

Features：

- High radiometric power per LED
- Very long operating life
  (up to 100K hours)
- Low voltage DC operated
- More Energy Efficient than Incandescent
  and most Halogen lamps
- Good color uniformity
- NO UV
- Superior ESD protection
- Easy installation with Screws
- High Heat dissipstion Efficiency

Typical Applications：

- Reading lights(car,bus,aircraft)
- Portable(flashlight,bicycle)
- Automotive Exterior(Stop-Tail-Turn,
  CHMSL,Mirror Side Repeat)
- Decorative/Entertainment
- Dental curing lights
- Uplighters/Downlighters
- Bollards/Security/Garden
- Cove/Undershelf/Task
- Indoor/Outdoor Commercial and Residential Architectural
- Automotive Ext(stop-Tail-Turn)
- Street Lamp
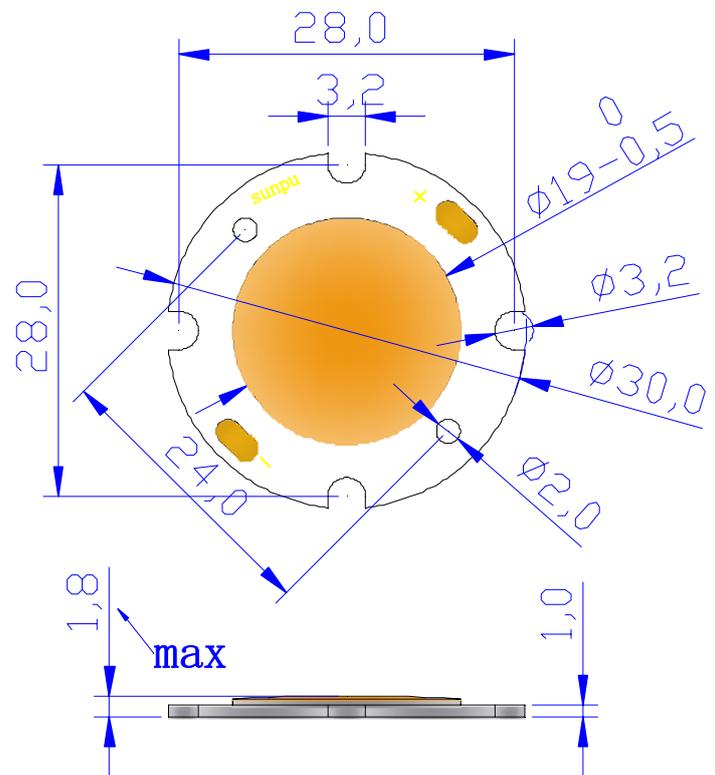
NOTE:
- All dimensions are millimeter.
- Tolerance is ±0.1mm unless otherwise noted.
- It is strongly recommended that the temperature of lead be not higher than 70℃.
- The appearance and specifications of the product may be modified for improvement without notice.

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Typical Radiation Pattern

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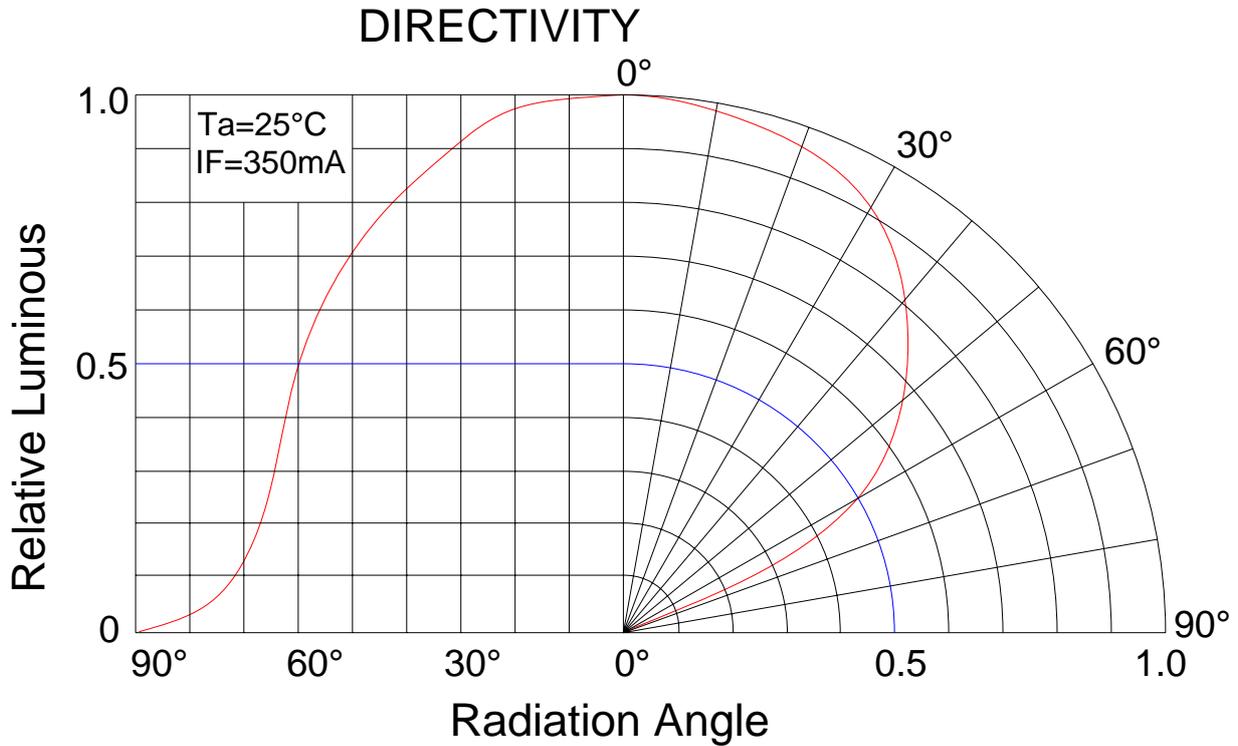
Ta=25°C
IF=350mA

Absolute maximum ratings（Ta = 25℃）

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
DC Forward Current	IF	----	----	400	mA
Peak Pulse Current	Ipeak	Duty=1/10　1kHz	----	500	mA
Power Dissipation	Pd	----	----	11.5	W
LED Junction Temperature	Tj	----	----	105	℃
Operating Temperature	Topr	----	-25	+85	℃
Storage　Temperature	Tstr	----	-40	+100	℃
ESD Sensitivity	----	HBM	8000	----	V
Soldering Temperature	----	----	220℃　for 5 Seconds max		

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Electrical and optical characteristics （Ta = 25℃）

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	VF	IF = 350mA		29		V
Luminous Flux	Φv			1100	----	lm
Viewing Angle	2θ1/2		----	120	----	Deg.
Color Temperature	CCT		5000	-----	6500	K
Thermal Resistance	Rj	-----		2.5		℃/W

Luminous Flux Bins（Ta = 25℃）　　Unit: lm

Bin	D2	E2	F2	G2
Min	800	900	1000	1200
Max	900	1000	1200	1400

Chromaticity Coordinates Ranks(IF=350mA　Ta=25℃)

Bin	x1	y1	x2	y2	x3	y3	x4	y4
PT1	0.3384	0.3650	0.3381	0.3550	0.3461	0.3617	0.3469	0.3717
PT2	0.3381	0.3550	0.3378	0.3451	0.3453	0.3518	0.3461	0.3617
PT3	0.3378	0.3451	0.3374	0.3352	0.3444	0.3418	0.3453	0.3518
PT4	0.3374	0.3352	0.3371	0.3252	0.3436	0.3318	0.3444	0.3418
PV1	0.3300	0.3584	0.3302	0.3484	0.3381	0.3550	0.3384	0.3650
PV2	0.3302	0.3484	0.3303	0.3384	0.3378	0.3451	0.3381	0.3550
PV3	0.3303	0.3384	0.3304	0.3285	0.3374	0.3352	0.3378	0.3451
PV4	0.3304	0.3285	0.3306	0.3185	0.3371	0.3252	0.3374	0.3352
PW1	0.3236	0.3534	0.3242	0.3434	0.3302	0.3484	0.3300	0.3584
PW2	0.3242	0.3434	0.3247	0.3335	0.3303	0.3384	0.3302	0.3484
PW3	0.3247	0.3335	0.3253	0.3235	0.3304	0.3285	0.3303	0.3384
PW4	0.3253	0.3235	0.3258	0.3136	0.3306	0.3185	0.3304	0.3285
PX1	0.3173	0.3484	0.3182	0.3385	0.3242	0.3434	0.3236	0.3534
PX2	0.3182	0.3385	0.3191	0.3286	0.3247	0.3335	0.3242	0.3434
PX3	0.3191	0.3286	0.3201	0.3186	0.3253	0.3235	0.3247	0.3335
PX4	0.3201	0.3186	0.3210	0.3086	0.3258	0.3136	0.3253	0.3235
PY1	0.3109	0.3434	0.3122	0.3335	0.3182	0.3385	0.3173	0.3484
PY2	0.3122	0.3335	0.3135	0.3236	0.3191	0.3286	0.3182	0.3385
PY3	0.3135	0.3236	0.3149	0.3136	0.3201	0.3186	0.3191	0.3286
PY4	0.3149	0.3136	0.3162	0.3037	0.3210	0.3086	0.3201	0.3186

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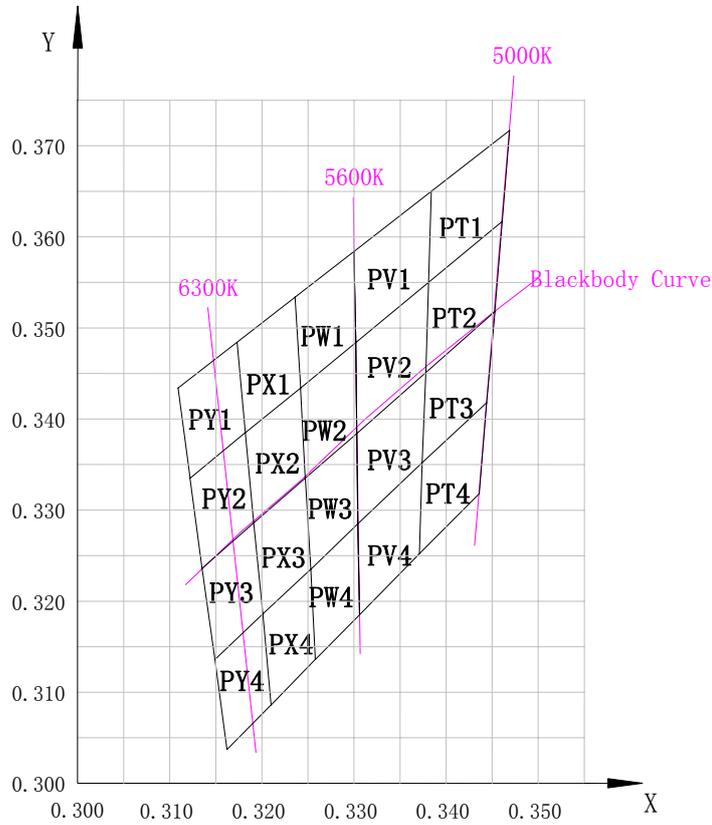
Note

1. Flux is measured with an accuracy of ±15%
2. Chromaticity Coordinates (x,y) is measured with an accuracy of ±0.01
3. Forward Voltage is measured with an accuracy of ± 0.2V
4. It is strongly recommended that the temperature of lead be not higher than 70°C

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Typical electrical/optical characteristic curves TJ=25°C

White
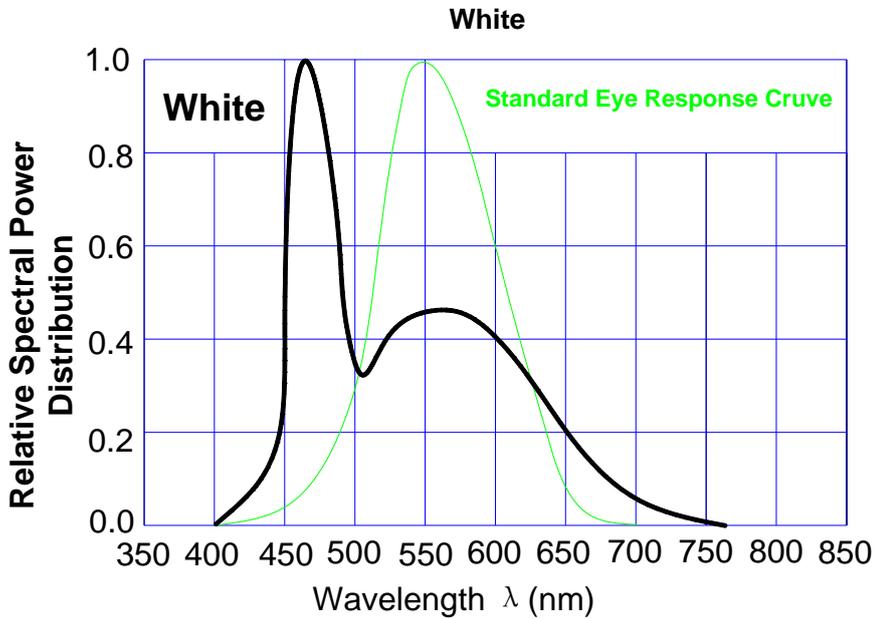
Typical electrical/optical characteristic curves：

Fig.1 Forward Current(mA) Vs. Forward Voltage(V)
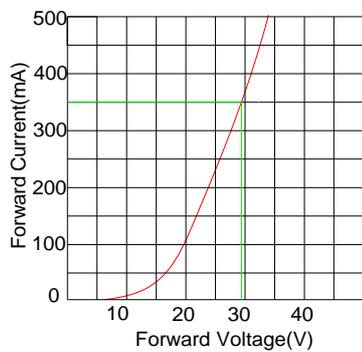

Fig.2 Relative Intensity Vs Forward Current (mA)
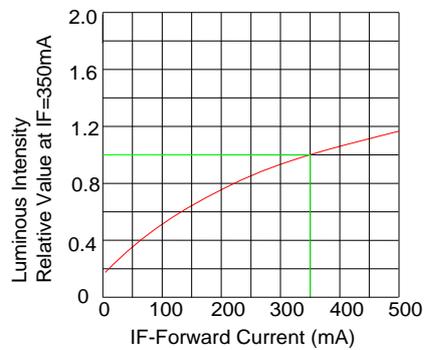
Fig.3 Forward Current Vs Ambient Temperature
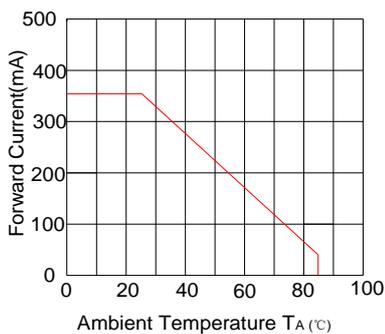
Fig.4 Relative Intensity Vs. Ambient Temperature
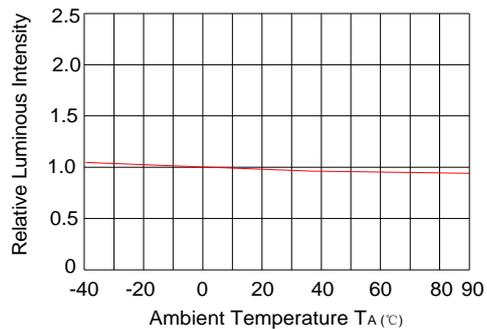
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Recommended installation screw pitch

$28^{+0.5}_{-0.5}$

Thermal conduction materials(insulation)

M2.5 Screw

Spring washer

Plane washer
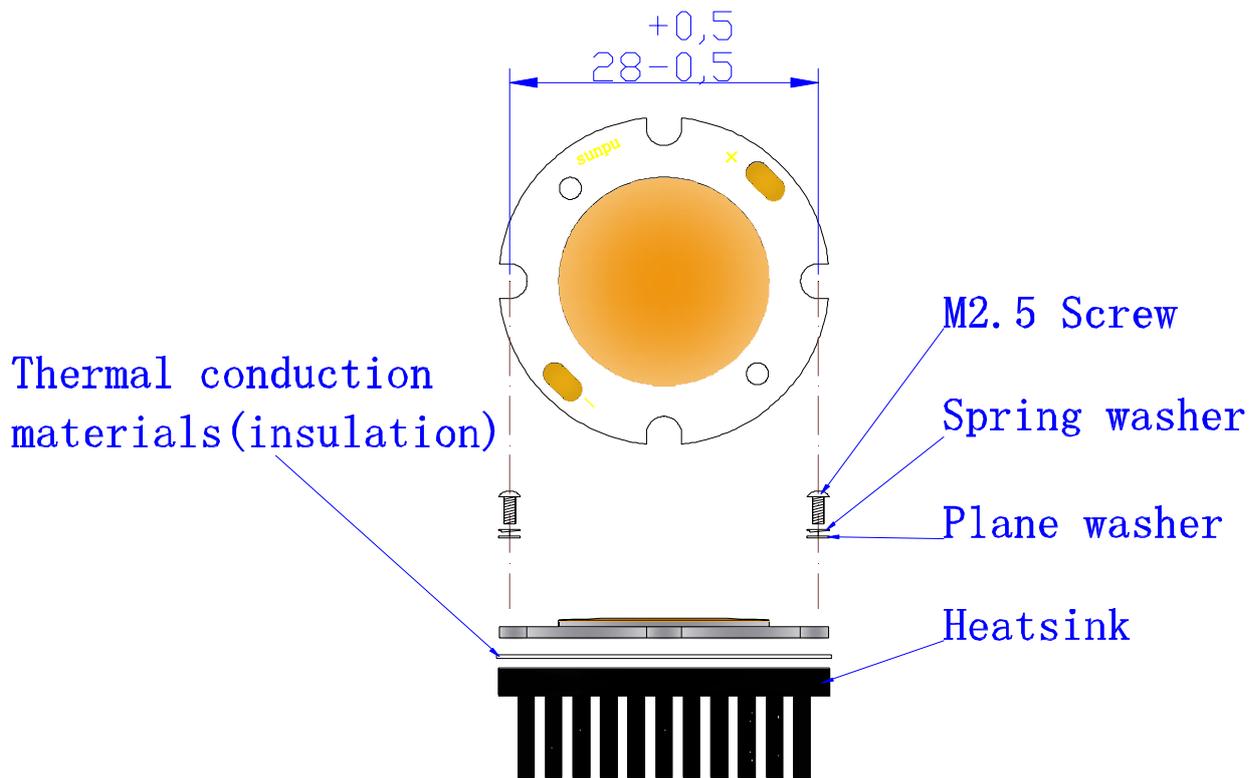
Heatsink

If you can not slove the heat problem,the product will distroy easily.Suggest that the surface of the heat sink is 35cm^2/1W