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Snowdragon Industrial Co.,Ltd

DATA SHEET

MODEL N.O.: SDUV2W365-370-YX-A

ENG. N.O.: 12051401

Description:

- **Wavelength: 360-370nm**
- **Luminous Flux: 7-8lm**
- **Forward Voltage:3.8V**
- **Viewing Angle:120°**
- **Test condition: 500mA**

PREPARED BY	CHECKED BY	APPROVED BY
CUSTOMER APPROVED SIGNATURES		

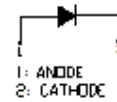
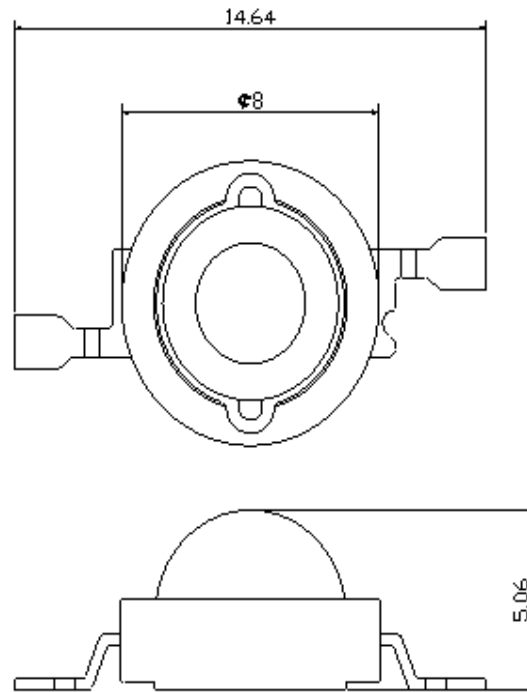


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■ Mechanical Dimensions:

(外观尺寸)



Note(备注):

1. All dimensions are in millimeters
(所有尺寸的单位均为毫米)
2. All dimensions without tolerances are for reference only.
(所有没标示公差的尺寸仅供参考)



■ Absolute Maximum Ratings (Ta = 25°C) :
(最大额定值)

Items (项目)	Symbol (符号)	Absolute maximum Rating (最大额定值)	Unit (单位)
		UV (紫外)	
Power Dissipation * (功率)	P _D	1400	mW
DC Forward Current (正向输入电流)	I _F	350	mA
Peak Pulse Forward Current* (输入脉冲峰值电流)	I _{FP}	700	mA
Average Forward Current (平均输入电流)	I _{avg}	500	mA
Reverse Voltage (反向电压)	V _R	--	V
LED Junction Temperature (结点温度)	T _j	125	℃
Operating Temperature (工作温度)	T _{op}	-30 ~ +80	℃
Storage Temperature (储存温度)	T _{stg}	-40 ~ +100	℃
Manual Soldering Temperature (手工焊接温度)	T _{sol}	Max.350°C ± 20°C for 3 sec Max	

*Pulse width ≤ 0.1msec Duty cycle ≤ 1/10(脉冲宽度 ≤ 0.1ms, 占空比 ≤ 1/10)

■ Notes (备注) :

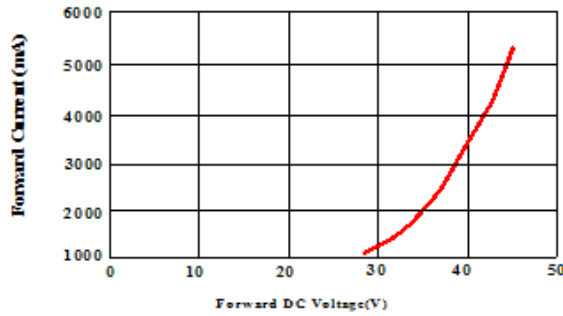
1. Absolute maximum ratings Ta=25°C.
(Ta=25°C的最大额定值)
2. Tolerance of measurement of forward voltage±1V.
(正向电压的测量公差为±1V)
3. Tolerance of measurement of Radiant Power ±5%.
(发射功率的测量公差为±5%)



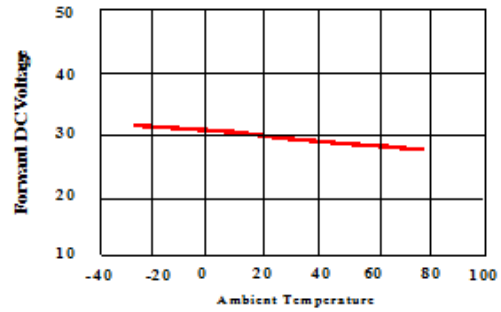
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■ Typical Electrical/ Optical Characteristics Curves
(Ta=25°C Unless Otherwise Noted)
(光电特性曲线图)

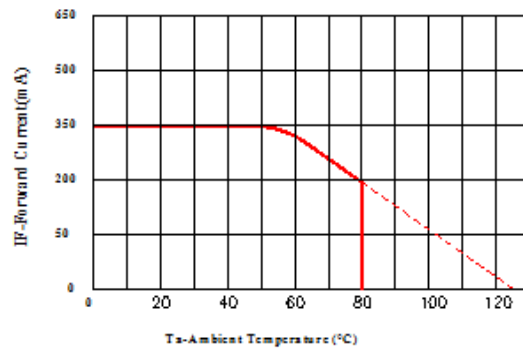


Forward current vs. Forward DC voltage

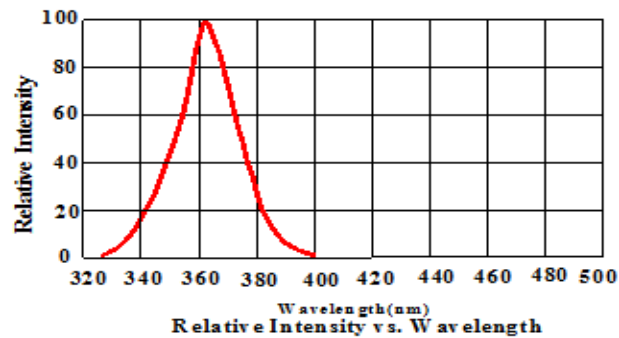


Forward DC Voltage vs. Ambient Temperature

Forward Current VS Ambient Temperature
(正向电流-环境温度图)



Wavelength Characteristics
(波长特性图)



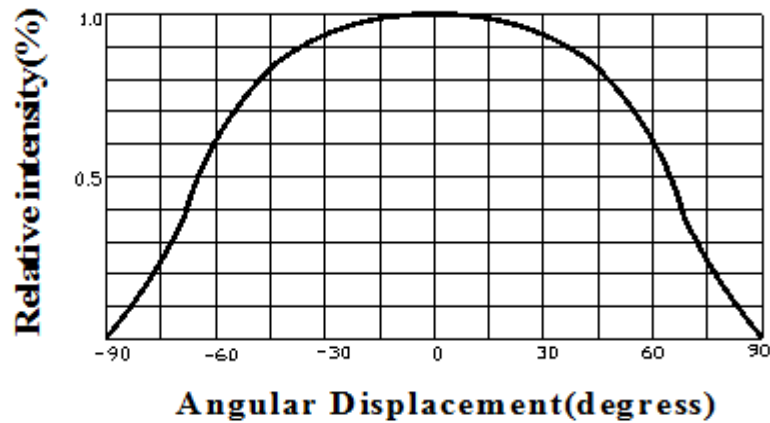
Relative Intensity vs. Wavelength

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Angular displacement VS Relative intensity

(角度位移-发光强度图)



Reliability (可靠性)

1. Test Items And Results

(测试项目与结果)

Test Item (测试项目)	Reference Standard (参考标准)	Test Conditions (测试条件)	Test Hours/cycle (测试时间/周期)	Units Tested (单位)	Ac/Re (允收标准)
Operation Test (操作测试)	Flux Degradatio 3% average	TA=25°C±5°C, IF=350mA	1000 Hrs	22	0/22
Environment Test (环境测试)	High Temperature Storage (高温储存)	JEITA ED-4701 200 201 TA=100°C±5°C	1000 Hrs	22	0/22
	Low Temperature Storage (低温测试)	JEITA ED-4701 200 201 TA= - 40°C±5°C	1000 Hrs	22	0/22
	High Temperature & Humidity Storage (高温高湿储存)	JEITA ED-4701 200 201 TA=85°C±5°C, RH=85%±5%RH	1000 Hrs	22	0/22
	Thermal Shock (冷热冲击)	JEITA ED-4701 300 307 -40°±5°C ↔ +85°C±5°C 30min dwell / 5 min transfer	50 Cycles	22	0/22
Soldering Test (手工焊接测试)	Solder ability (焊接性)	350±5°C, 5 ±1 sec	1 time Over 95%Wetting	22	0/22
	Resistance to Soldering Heat (耐焊性)	350±5°C, 5 ±1 sec	1 time	22	0/22

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2.Failure criteria↵

(失效标准) ↵

- Electrical Failures:↵

(电性失效) ↵

- $V_F > \pm 10\%$ (电压值 $> \pm 5\%$) ↵

- $I_R(V_R=5V) > 10\mu A$ (反向电流 $> 10\mu A$) ↵

- Light Output Degradation:↵

(发射功率衰减) ↵

- Radiant Power Degradation% $> 10\%$ max ; $> 3\%$ average +

(发射功率最大衰减 $> 10\%$; 平均衰减 $> 3\%$) ↵

- Visual Failures:↵

(外观不良) ↵

- Broken or damaged package or lead (包装破损) ↵

- Solder ability $< 95\%$ Wetting (有效焊接面积 $< 95\%$) ↵

- Dimension out of tolerance (尺寸超出公差) ↵

- Discolor of lens (透镜变色) ↵

↵

■ Note : It is required that the LEDs should be attached heat-sink when these LEDs are Operating.↵

(备注：以上这些是要求在操作 LED 的过程当中要重视散热的问题) ↵

