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Snowdragon Industrial Co.,Ltd

DATA SHEET

MODEL N.O.: SDUV5W365-370-YX-A

ENG. N.O.: 12051401

Description:

- **Wavelength: 395-400nm**
- **Luminous Flux: 20-25lm**
- **Forward Voltage:4V**
- **Viewing Angle:140°**
- **Test condition: 1000mA**

| PREPARED BY | CHECKED BY | APPROVED BY |
|------------------------------|------------|-------------|
| | | |
| CUSTOMER APPROVED SIGNATURES | | |
| | | |



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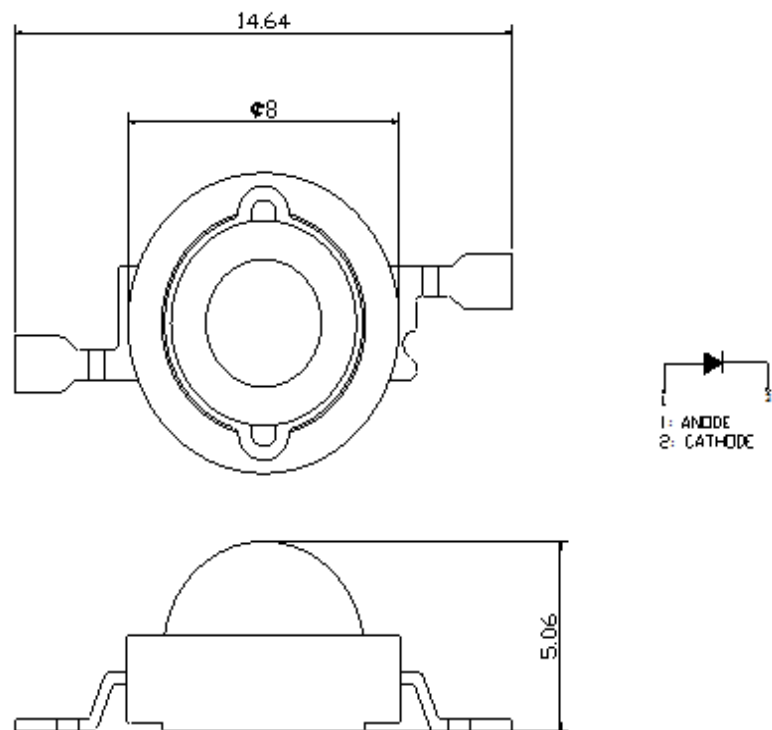
↵

■ Mechanical Dimensions:↵

(外观尺寸)↵

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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 | 4200 | mW |
| DC Forward Current (正向输入电流) | I _F | 1000 | mA |
| Peak Pulse Forward Current* (输入脉冲峰值电流) | I _{FP} | 1400 | mA |
| Average Forward Current (平均输入电流) | I _{avg} | 1200 | mA |
| Reverse Voltage (反向电压) | V _R | -- | V |
| LED Junction Temperature (结点温度) | T _J | 125 | °C |
| Operating Temperature (工作温度) | T _{op} | -30 ~ +80 | °C |
| Storage Temperature (储存温度) | T _{stg} | -40 ~ +100 | °C |
| Manual Soldering Temperature (手工焊接温度) | T _{sol} | Max.350°C ± 20°C for 3 sec Max | |

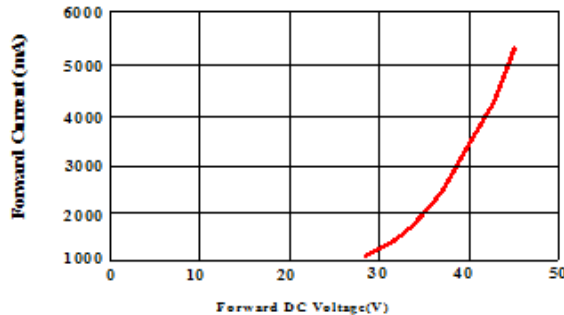
*Pulse width ≤ 0.1msec Duty cycle ≤ 1/10(脉冲宽度 ≤ 0.1ms, 占空比 ≤ 1/10)

■ Notes (备注) :

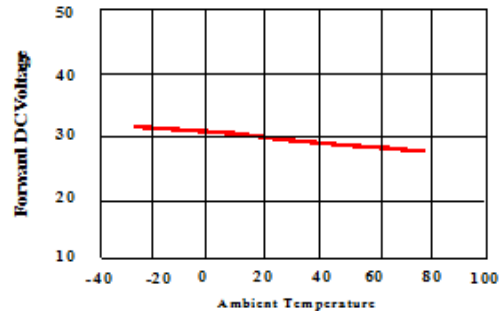
1. Absolute maximum ratings Ta=25°C.
(Ta=25°C的最大额定值)
2. Tolerance of measurement of forward voltage ±1V.
(正向电压的测量公差为±1V)
3. Tolerance of measurement of Radiant Power ±5%.
(发射功率的测量公差为±5%)



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

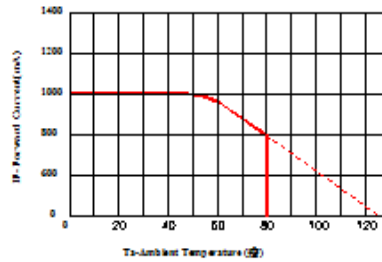


Forward current vs. Forward DC voltage

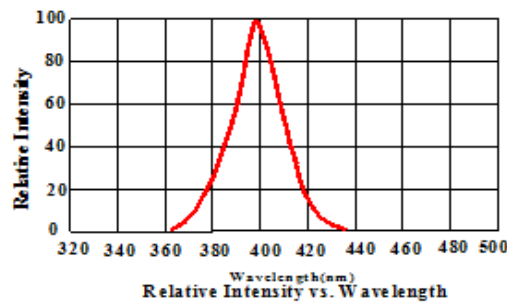


Forward DC Voltage vs. Ambient Temperature

Forward Current VS Ambient Temperature[↵]
(正向电流-环境温度图) :[↵]



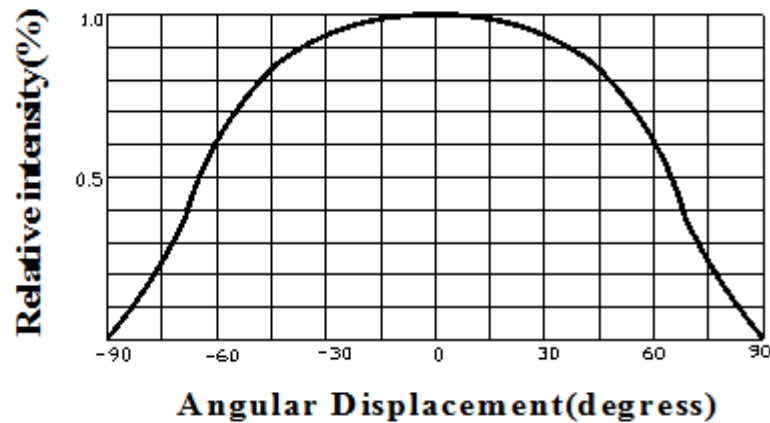
Wavelength Characteristics :[↵]
(波长特性图) :[↵]





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 | T _A =25°C±5°C, IF=1000mA | 1000 Hrs | 22 | 0/22 |
| Environment Test (环境测试) | High Temperature Storage (高温储存) | JEITA ED-4701 200 201 T _A =100°C±5°C | 1000 Hrs | 22 | 0/22 |
| | Low Temperature Storage (低温测试) | JEITA ED-4701 200 201 T _A = - 40°C±5°C | 1000 Hrs | 22 | 0/22 |
| | High Temperature & Humidity Storage (高温高湿储存) | JEITA ED-4701 200 201 T _A =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) ↵

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■ 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) ↵

