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Snowdragon Industrial Co.,Ltd

DATA SHEET

MODEL N.O.: SDUV1W395-400-YX-A

ENG. N.O.: 12051302

Description:

- **Wavelength: 395-400nm**
- **Luminous Flux: 8-12lm**
- **Forward Voltage:4V**
- **Viewing Angle:120°**
- **Test condition: 350mA**

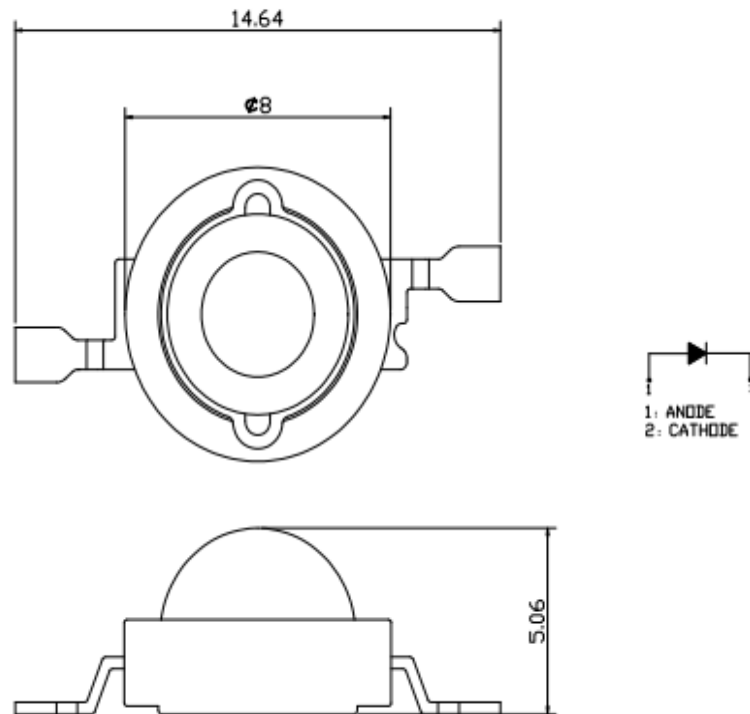
PREPARED BY	CHECKED BY	APPROVED BY
CUSTOMER APPROVED SIGNATURES		



Technology support or Order ,pls email us :powerledmanufacturer@gmail.com



■ 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	°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	

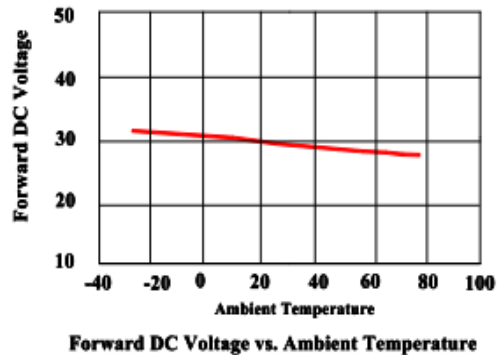
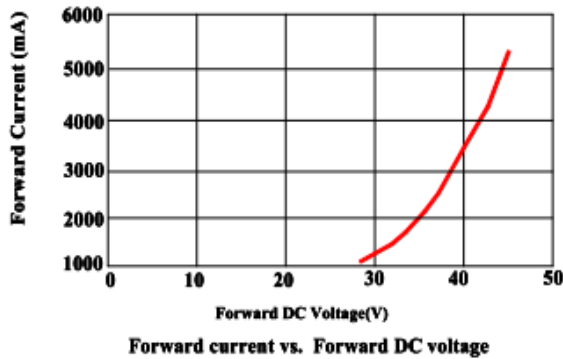
*Pulse width ≦ 0.1msec Duty cycle ≦ 1/10(脉冲宽度 ≦ 0.1ms, 占空比 ≦ 1/10)

■ Notes (备注) :

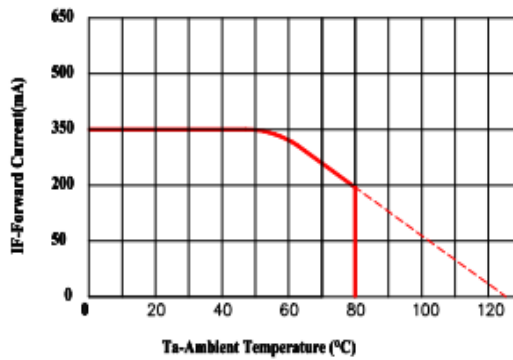
- 1.Absolute maximum ratings Ta=25°C.
(Ta=25°C的最大额定值)
- 2.Tolerance of measurement of forward voltage±1V.
(正向电压的测量公差为±1V)
- 3.Tolerance of measurement of Radiant Power ±5%.
(发射功率的测量公差为±5%)



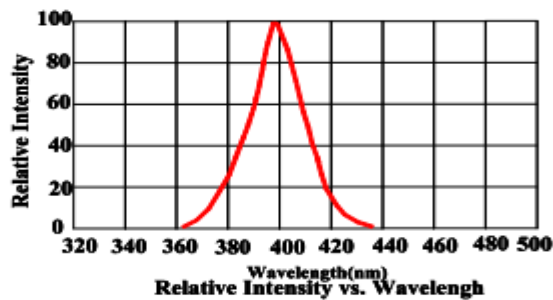
■ Typical Electrical/ Optical Characteristics Curves
($T_a=25^{\circ}\text{C}$ Unless Otherwise Noted) :
(光电特性曲线图)



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



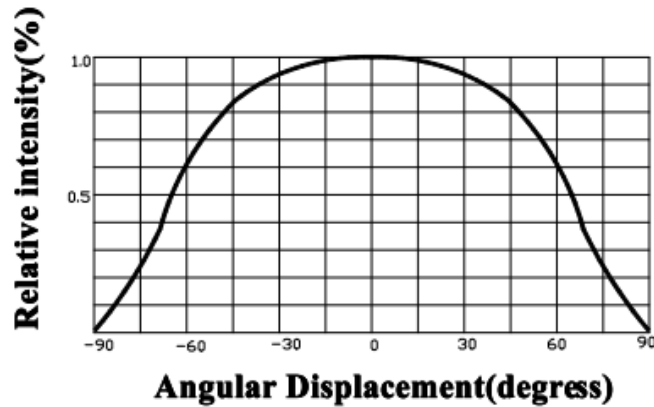
Wavelength Characteristics
(波长特性图)





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)	Operating Life Test (寿命实验)	Flux Degradatio> 3% average	$T_A=25^{\circ}\text{C}\pm 5^{\circ}\text{C}$, $IF=350\text{mA}$	1000 Hrs	22	0/22
Environment Test (环境测试)	High Temperature Storage (高温储存)	JEITA ED-4701 200 201	$T_A=100^{\circ}\text{C}\pm 5^{\circ}\text{C}$	1000 Hrs	22	0/22
	Low Temperature Storage (低温测试)	JEITA ED-4701 200 201	$T_A=-40^{\circ}\text{C}\pm 5^{\circ}\text{C}$	1000 Hrs	22	0/22
	High Temperature.& Humidity Storage 高温高湿储存	JEITA ED-4701 200 201	$T_A=85^{\circ}\text{C}\pm 5^{\circ}\text{C}$, $RH=85\%\pm 5\%RH$	1000 Hrs	22	0/22
	Thermal Shock (冷热冲击)	JEITA ED-4701 300 307	$-40^{\circ}\pm 5^{\circ}\text{C} \leftrightarrow +85^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 30min dwell / 5 min transfer	50 Cycles	22	0/22
Soldering Test (手工焊接测试)	Solder ability (焊接性)		$350\pm 5^{\circ}\text{C}$, $5 \pm 1 \text{ sec}$	1 time Over 95%Wetting	22	0/22
	Resistance to Soldering Heat (耐焊性)		$350\pm 5^{\circ}\text{C}$, $5 \pm 1 \text{ sec}$	1 time	22	0/22



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)

