

LED SPECIFICATION



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

LED-100-45136

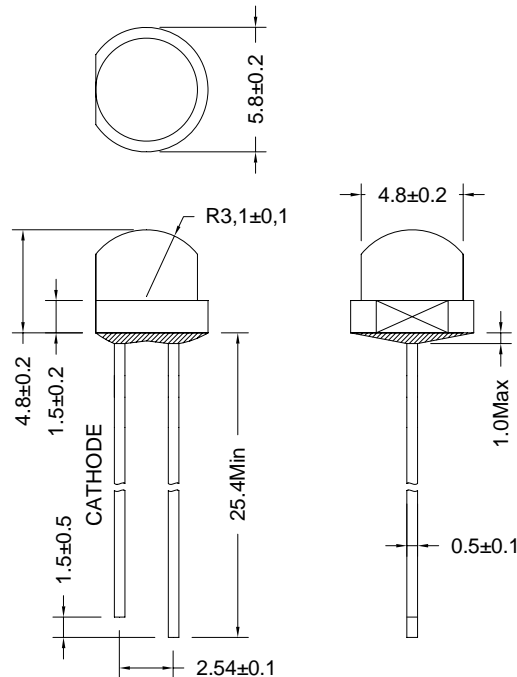
VERDE 280/550MCD 170* WATER

➤ Features/特征:

- Single color/单色
- High bright output/高亮度输出
- Large view angle/大视角
- Low power consumption/低功耗
- High reliability and long life/
可靠性高、寿命长

➤ Descriptions/描述:

- Dice material/芯片材质: InGaN
- Emitting Color/发光颜色:
Super Bright Green/ 高亮度绿色
- Device Outline/产品外形:
φ5mm Round Type/ 5mm 圆形
- Lens Type 胶体颜色:
Water Clear/ 无色透明



1. All dimensions are millimeters/单位: mm.
2. Tolerance is ± 0.25 mm unless otherwise noted/没有标注的公差均为 ± 0.25 mm.

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➤ Absolute maximum ratings/极限参数 (Ta = 25°C)

Parameter 参数	Symbol 符号	Test Condition 测试条件	Values 数值		Unit 单位
			Min.	Max.	
Reverse Voltage 反向电压	VR	IR = 30 μ A	5	--	V
Forward Current 正向工作电流	IF	----	----	25	mA
Power Dissipation 损耗功率	Pd	----	----	90	mW
Pulse Current 正向峰值电流	Ipeak	Duty=0.1mS, 1kHz	----	100	mA
Operating Temperature 工作温度范围	Topr	----	-40	+85	°C
Storage Temperature 储存温度范围	Tstr	----	-40	+100	°C

➤ Electrical and optical characteristics/光电参数 (Ta = 25°C)

Parameter 参数	Symbol 符号	Test Condition 测试条件	Values 数值			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	VF	IF=20mA	----	3.2	3.6	V
Reverse Current 反向电流	IR	VR=5V	----	----	30	μ A
Dominate Wavelength 主波长	λ d	IF=20mA	----	525	----	nm
Peak Wavelength 峰值波长	λ p	IF=20mA	----	520	----	nm
Spectral Line half-width 半波长宽度	Δ λ	IF=20mA	----	35	----	nm
Luminous Intensity 发光强度	Iv	IF=20mA	----	400	----	mcd

➤ Luminous Intensity Bins/亮度等级分档 (Ta = 25°C)

Unit:mcd

Bin	P	Q	R
Min	280	390	550
Max	390	550	770

➤ Dominate Wavelength Bins/波长等级分档 (Ta = 25°C)

Unit:nm

Bin	G11	G12	G13
Min	521	524	527
Max	524	527	530

➤ Forward Current Bins/电压等级分档 (Ta = 25°C)

Unit:V

Bin	V8	V9	V10
Min	3.0	3.2	3.4
Max	3.2	3.4	3.6

➤ Typical electrical/optical characteristic curves/光电特性曲线:

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Fig.1 正向电流 Vs. 正向电压

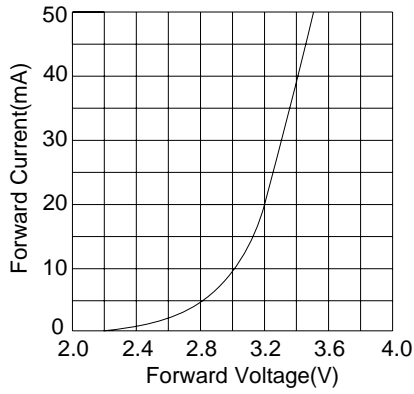


Fig.2 相对亮度 Vs. 正向电流

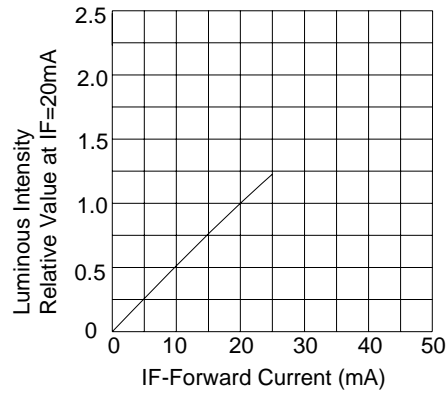


Fig.3 正向电流 Vs. 环境温度

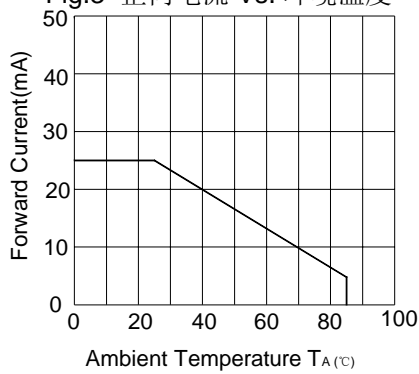


Fig.4 相对亮度 Vs. 环境温度

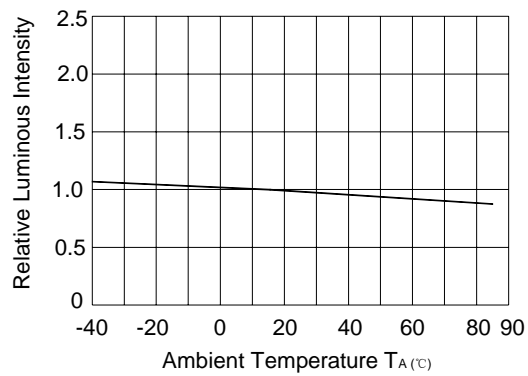


Fig.5 相对亮度 Vs. 波长

