

**ATTENTION**

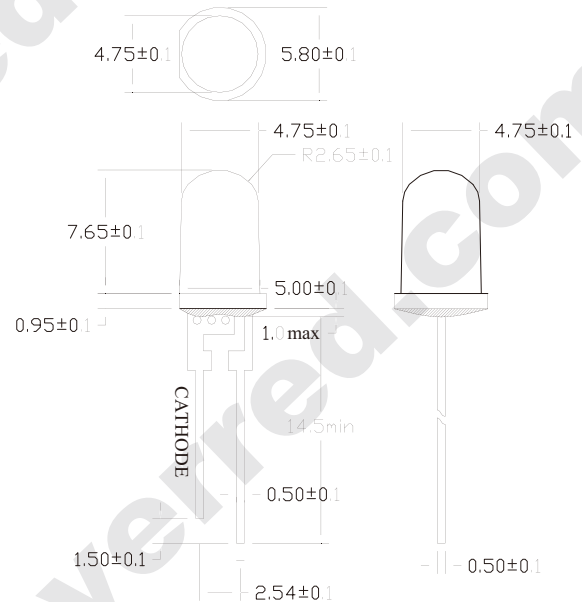
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

### ➤ Features/特征:

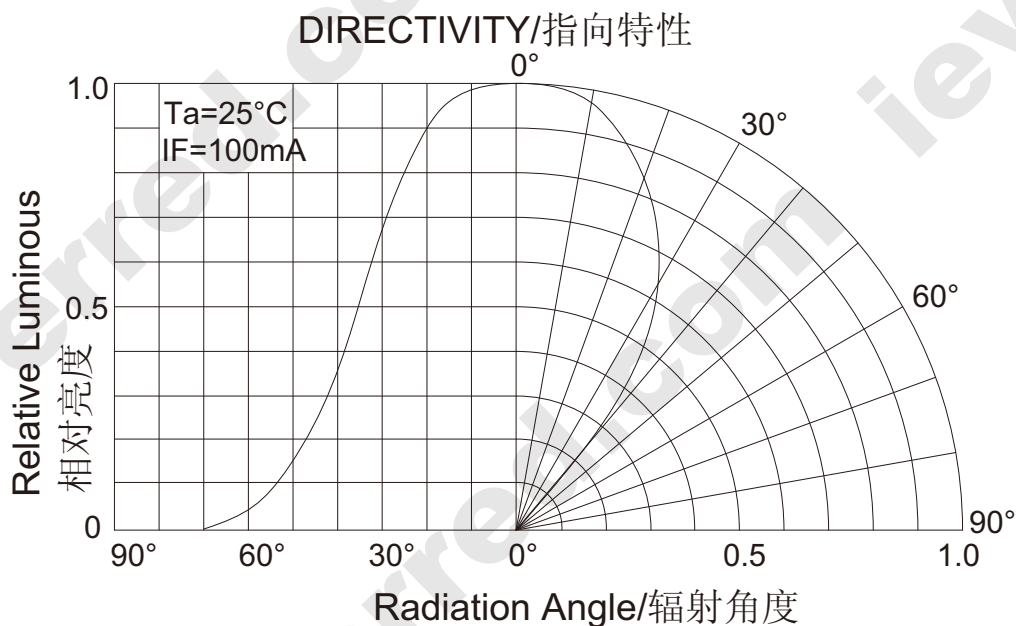
- Single color/特征
- High bright output/高亮度输出
- Medium power consumption/中功耗
- High reliability and long life/可靠性高、寿命长

### ➤ Descriptions:

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

**NOTE/注意:**

- All dimensions are millimeters/单位: mm
- Tolerance is +/-0.20mm unless otherwise noted/没有标注的公差为±0.20mm



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

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 数值		Unit 单位
			Min.	Max.	
Reverse Voltage 反向电压	V <sub>R</sub>	I <sub>R</sub> = 30 μA	5	--	V
Forward Current 正向工作电流	I <sub>F</sub>	----	----	120	mA
Power Dissipation 损耗功率	P <sub>d</sub>	----	----	0.3	W
Pulse Current 正向峰值电流	I <sub>peak</sub>	Duty=0.1mS, 1kHz	----	200	mA
Operating Temperature 工作温度范围	T <sub>opr</sub>	----	-40	+85	°C
Storage Temperature 储存温度范围	T <sub>str</sub>	----	-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	Value 数值			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	V <sub>F</sub>	I <sub>F</sub> = 100mA	----	2.1	2.5	V
Reverse Current 反向电流	I <sub>R</sub>	V <sub>R</sub> = 5V	----	----	30	μA
Dominate Wavelength 主波长	λ <sub>d</sub>	I <sub>F</sub> =20mA	----	625	----	nm
Peak Wavelength 峰值波长	λ <sub>p</sub>	I <sub>F</sub> =20mA	----	632	----	nm
Spectral Line half-width 半波长宽度	Δλ	I <sub>F</sub> =20mA	----	20	----	nm
Luminous Flux 发光强度	Φ <sub>v</sub>	I <sub>F</sub> = 100mA	5	10	-	lm
Viewing Angle 指向角度	2θ 1/2	I <sub>F</sub> = 100mA	----	75	----	Deg.

➤ **Luminous Intensity Bins Chart/光通量(Unit: lm) (Ta = 25°C)**

Bin	L	M	N	AE	AF
Min	4.7	6	7.8	10	13
Max	6	7.8	10	13	17

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

Fig.1 正向电流 Vs. 正向电压

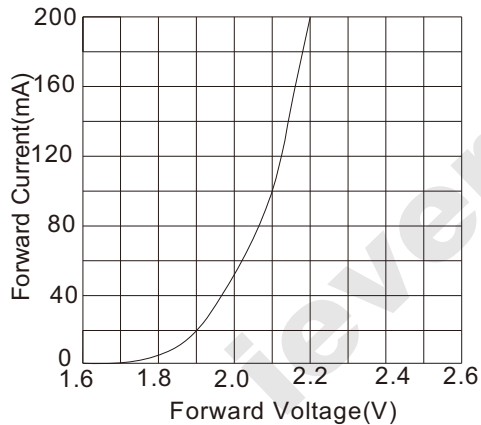


Fig.2 相对亮度 Vs. 正向电流

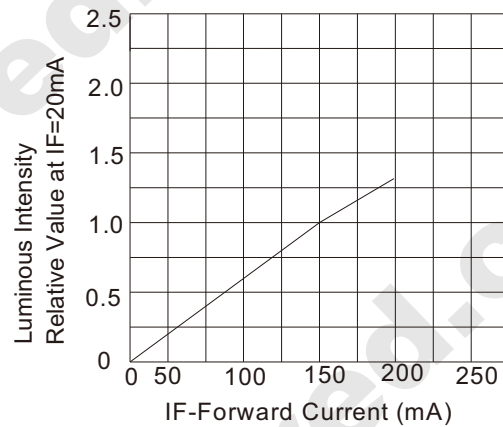


Fig.3 正向电流 Vs. 环境温度

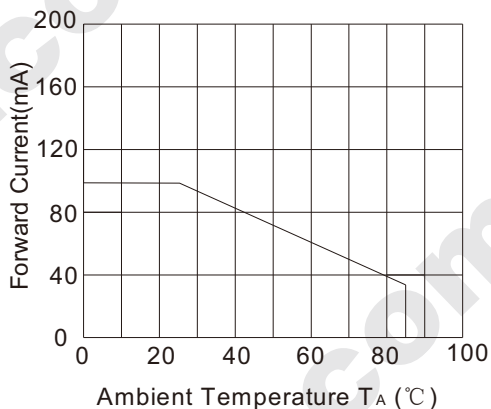


Fig.4 相对亮度 Vs. 环境温度

