



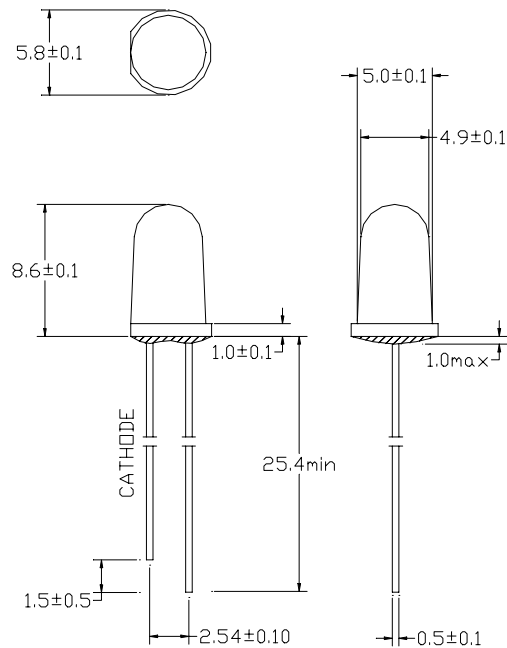
Part No./型号: 540F850C

➤ **Features/特征:**

- Single color/单色
- High Power output/高功率输出
- Low power consumption/低功耗
- High reliability and long life/
可靠性高、寿命长
- RoHS compliant/符合 RoHS 标准

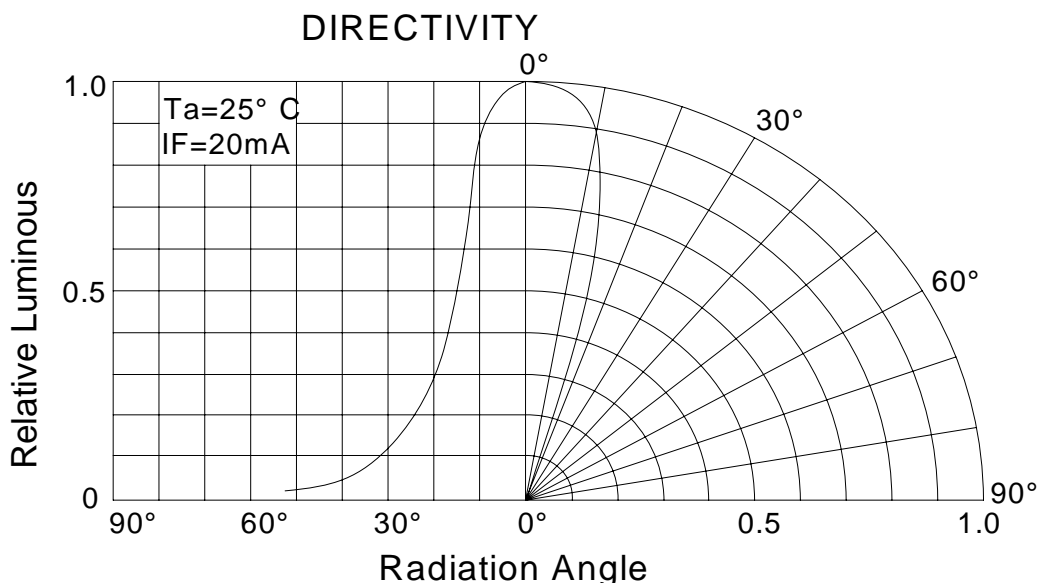
➤ **Descriptions/描述:**

- Dice material/芯片材质: AlGaAs
- Emitting Color/发光颜色:
Infrared Emitting diodes/发射管
- Device Outline/产品外形:
φ 5mm Round Type/ φ 5mm 圆形
- Lens Type/胶体颜色:
Black Transparent /黑色透明



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

➤ **Directivity/指向特性:**





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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.	
Power Dissipation 损耗功率	P_d	—	—	100	mW
Reverse Voltage 反向电压	V_R	$I_R=10\mu A$	9	—	V
Forward Current 正向工作电流	I_{FM}	Duty=0.01mS 1kHz	—	1000	mA
Operating Temperature 工作温度范围	T_{opr}	—	-40	+85	°C
Storage Temperature 储存温度范围	T_{str}	—	-40	+100	°C
Soldering Temperature 焊接温度	T_{sd}	$t \leq 3sec, 2mm$ from base	—	260	°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	V_F	$I_F = 50mA$	----	1.6	1.8	V
Reverse Current 反向电流	I_R	$V_R = 9V$	----	----	10	μA
Peak Wavelength 峰值波长	λ_p	$I_F = 50mA$	----	850	----	nm
Spectral Line half-width 半波长宽度	$\Delta \lambda$	$I_F = 50mA$	—	45	—	nm
Radiant Intensity 发射强度	I_e	$I_F=50mA$	---	65	—	mW/Sr
Viewing Angle 指向角度	$2\theta_{1/2}$	$I_F=20mA$	----	40	----	deg.



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

