



LED SPECIFICATION

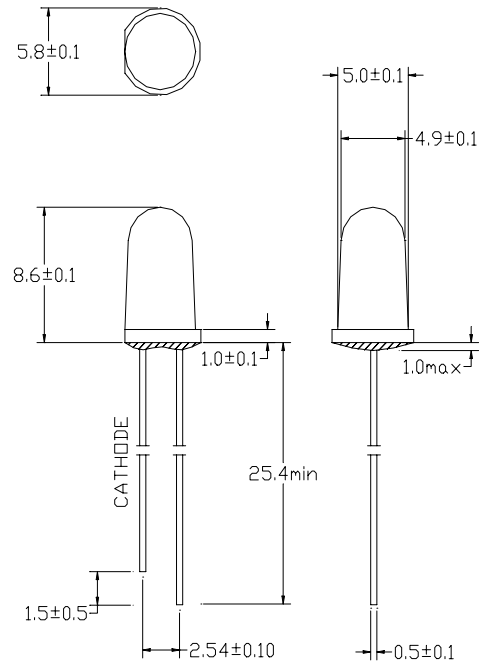
Part No.: **530E850C**

Features:

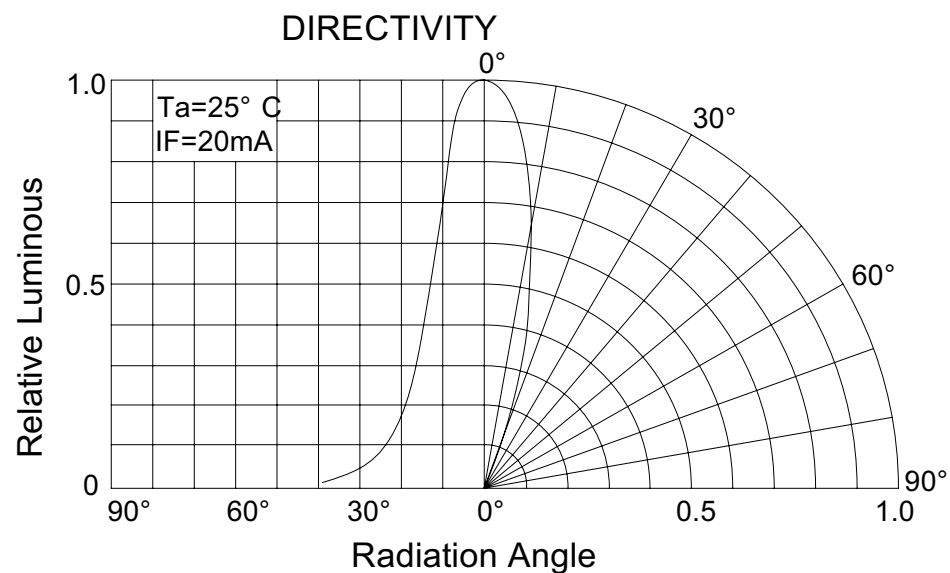
- Single color
- High Power output
- Low power consumption
- High reliability and long life

Descriptions:

- Dice material: AlGaAs
- Emitting Color: Infrared Emitting diodes
- Device Outline: $\phi 5\text{mm}$ Round Type
- Lens Type: Water Clear



● Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted





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Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Test Conditions	Characteristics		Unit
			Min.	Max.	
Power Dissipation	P _d	—	—	100	mW
Reverse Voltage	V _R	I _R =10 μ A	9	—	V
Forward Current	I _{FM}	Duty=0.01mS 1kHz	—	1000	mA
Operating Temperature Range	T _{opr}	—	-25	+75	°C
Storage Temperature Range	T _{str}	—	-40	+100	°C
Soldering Temperature	T _{sd}	t ≤ 5sec, 2mm from case	—	260	°C

Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	V _F	I _F = 50mA	----	1.55	1.8	V
Reverse Current	I _R	V _R = 9V	----	----	10	μ A
Peak Wavelength	λ _p	I _F = 50mA	----	850	----	nm
Spectrum Width of Half Value	Δ λ	I _F = 50mA	—	45	—	nm
Radiant Intensity	I _e	I _F =50mA	—	80	—	mW/Sr
Viewing Angle	2 θ 1/2	I _F = 50mA	----	30	----	Deg.



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Typical electrical/optical characteristic curves:

