



LED SPECIFICATION



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

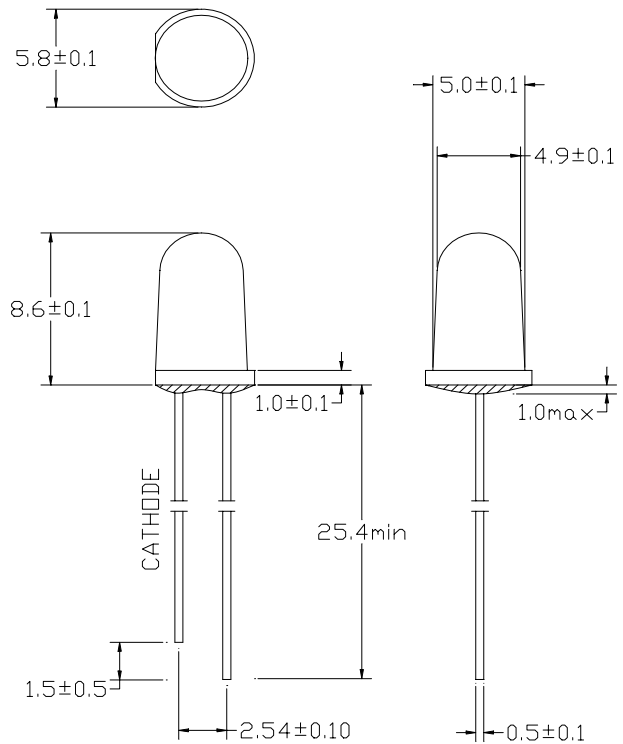
540IB7C

Features

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

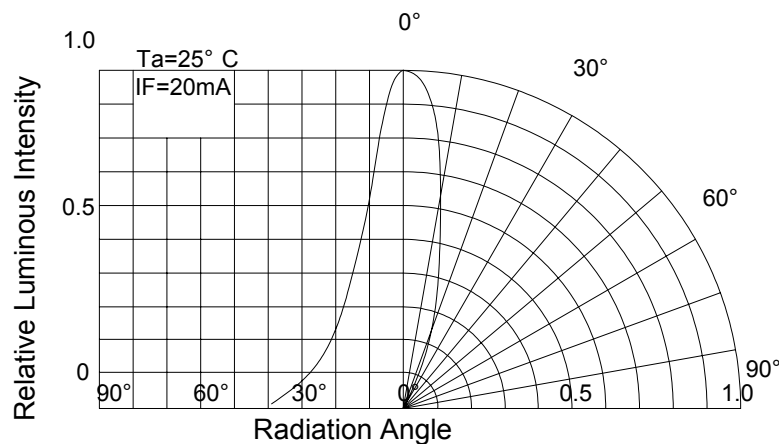
Descriptions:

- Dice material: GaN
- Emitting Color:
Super Bright Blue
- Device Outline:
 ϕ 5mm Round Type/ 5mm
- Lens Type:
Water Clear



1. All dimensions are millimeters
2. Tolerance is +/-0.25mm unless otherwise noted

Directivity:





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➤ Absolute maximum ratings (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	V _R	I _R = 30 μA	5	--	V
Forward Current 正向工作电流	I _F	----	----	25	mA
Power Dissipation 损耗功率	P _d	----	----	90	mW
Pulse Current 正向峰值电流	I _{peak}	Duty=0.1mS, 1kHz	----	100	mA
Operating Temperature 工作温度范围	T _{opr}	----	-20	+85	°C
Storage Temperature 储存温度范围	T _{str}	----	-25	+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	V _F	I _F =20mA	----	3.2	3.6	V
Reverse Current 反向电流	I _R	V _R =5V	----	----	30	μA
Dominant Wavelength 主波长	λ _d	I _F =20mA	----	470	----	nm
Peak Wavelength 峰值波长	λ _p	I _F =20mA	----	468	----	nm
Spectral Line half-width 半波长宽度	Δλ	I _F =20mA	----	20	----	nm
Luminous Intensity 发光强度	I _v	I _F =20mA	1100.....		1500	mcd
Viewing Angle 指向角度	2θ 40%	I _F =20mA	30.....		40	deg.



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➤ Typical electrical/optical characteristic curves:

Fig.1 正向电流 Vs. 正向电压

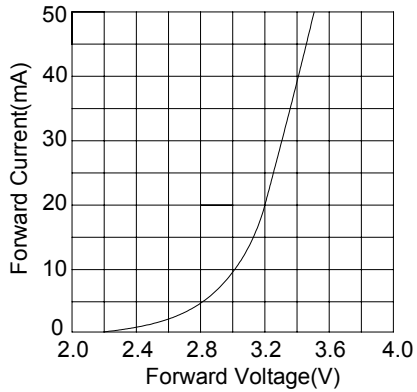


Fig.2 相对亮度 Vs. 正向电流

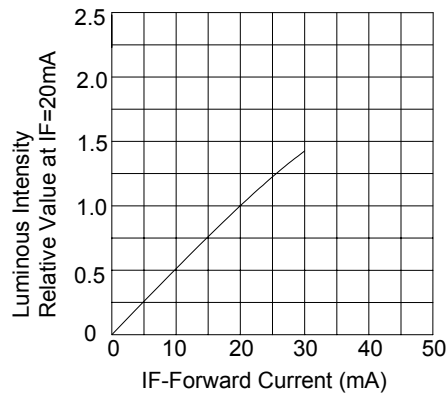


Fig.3 正向电流 Vs. 环境温度

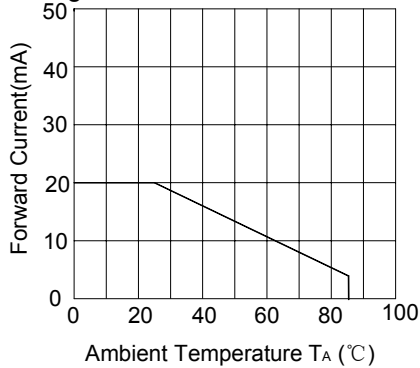


Fig.4 相对亮度 Vs. 环境温度

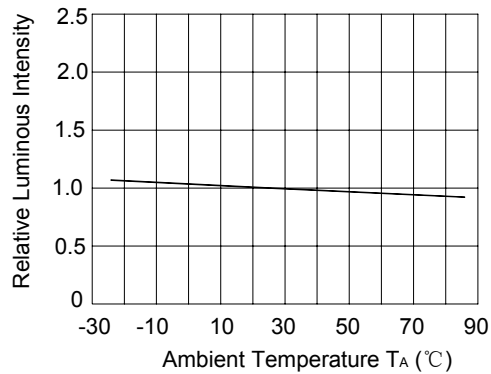


Fig.5 相对亮度 Vs. 波长

