TIANGXI
COMPONENTS

LED SPECIFICATION

TXBL33C7

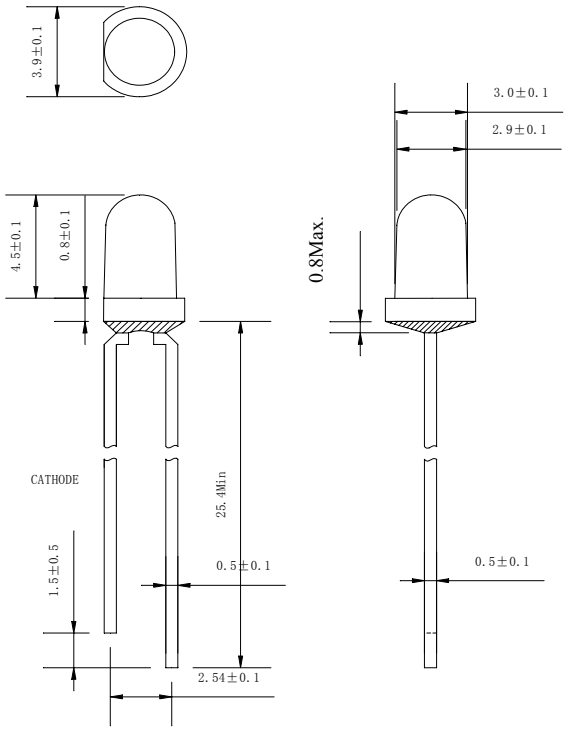
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

➢ Features：

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

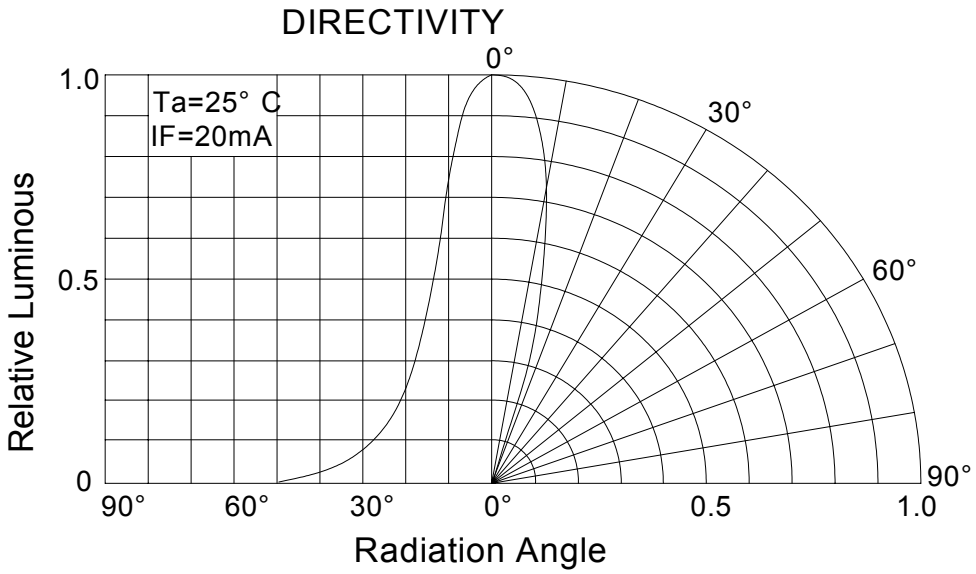
➢ Descriptions：

- Dice material：InGaN
- Emitting Color：Super Bright Blue
- Device Outline： Φ3mm Round Type
- Lens Type：Water Clear



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

➢ Directivity：



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➢ Absolute maximum ratings（Ta = 25℃）

Parameter	Symbol	Test Condition	Values		Unit
			Min.	Max.	
Reverse Voltage	V_R	I_R = 30μA	5	--	V
Forward Current	I_F	----	----	25	mA
Power Dissipation	P_d	----	----	90	mW
Pulse Current	I_{peak}	Duty=0.1mS，1kHz	----	100	mA
Operating Temperature	T_{opr}	----	-20	+85	℃
Storage Temperature	T_{str}	----	-25	+100	℃

➢ Electrical and optical characteristics（Ta = 25℃）

Parameter	Symbol	Test Condition	Values			Unit
			Min.	Typ.	Max.	
Forward Voltage	V_F	I_F=20mA	----	3.2	3.6	V
Reverse Current	I_R	V_R=5V	----	----	30	μA
Dominate Wavelength	λ_d	I_F=20mA	----	470	----	nm
Peak Wavelength	λ_p	I_F=20mA	----	468	----	nm
Spectral Line half-width	$\Delta\lambda$	I_F=20mA	----	20	----	nm
Luminous Intensity	I_V	I_F=20mA	----	1500	----	mcd
Viewing Angle	$2\theta_{1/2}$	I_F=20mA	24	27	30	deg.

Luminous Intensity Bins（Ta = 25℃） Unit:mcd

Bin	S	T	U	V	W
Min	770	1100	1520	2130	3000
Max	1100	1520	2130	3000	4180

➢ Dominate Wavelength Bins Unit:nm

Bin	B4	B5
Min	465	470
Max	470	475

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➢ Typical electrical/optical characteristic curves：

