

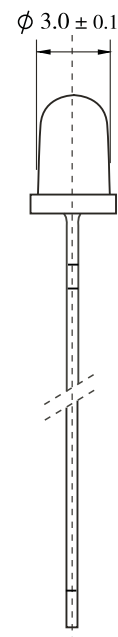
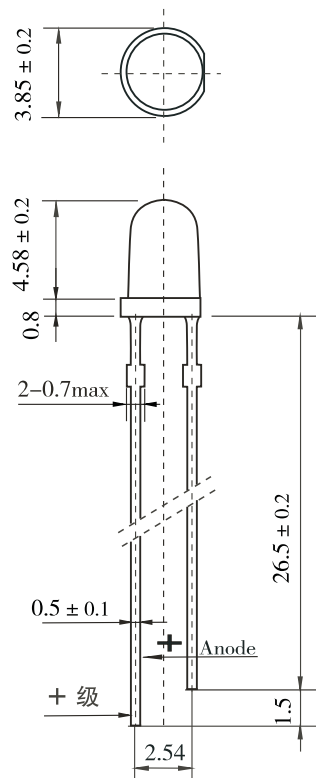
FEATURES

Low power consumption.
High Efficiency
Round type
T1 (3mm) diameter
With Flange
Solder leads without stand-off
Compliant with RoHS

DESCRIPTIONS

Chip Material:InGaN/GaN
Emitting Color: Blue
Lens Color: Water Clear

OUTLINE DRAWING



ATTENTION



OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

Tolerance is $\pm 0.25\text{mm}$

Unless Otherwise Specified.

ELECTRICAL OPTICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V_F	—	3.0	3.4	V	IF=20mA
Luminous Intensity	I_v	770	1500	—	mcd	IF=20mA
Peak Wavelength	λ_p		470		nm	IF=20mA
Spectral Line half-width	$\Delta \lambda$		20		nm	IF=20mA
Reverse Leakage Current	I_R			50	μA	VR=5V
Viewing Angle	$2\theta_{1/2}$		25		Deg	IF=20mA

ABSOLUTE MAXIMUM PARAMETERS (Ta=25°C)

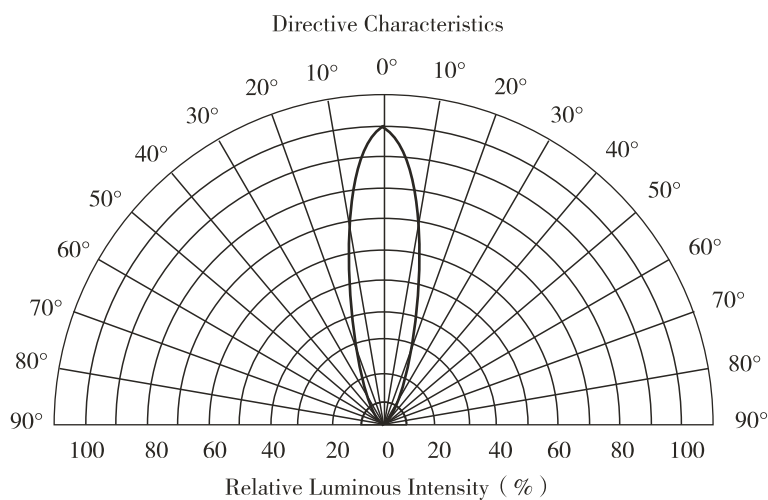
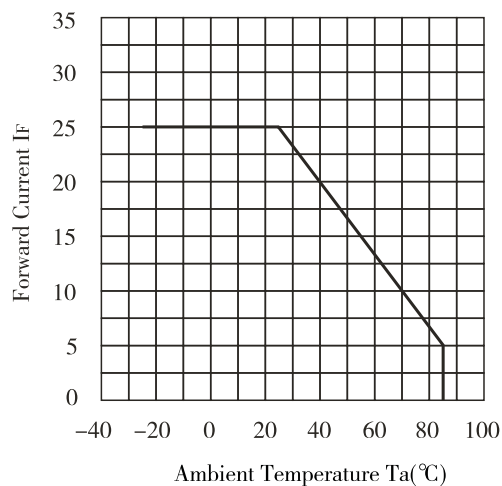
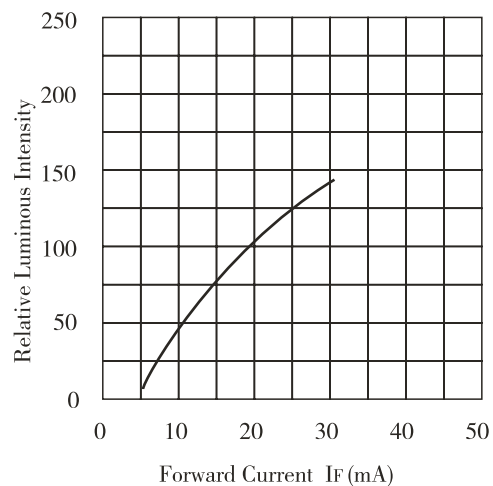
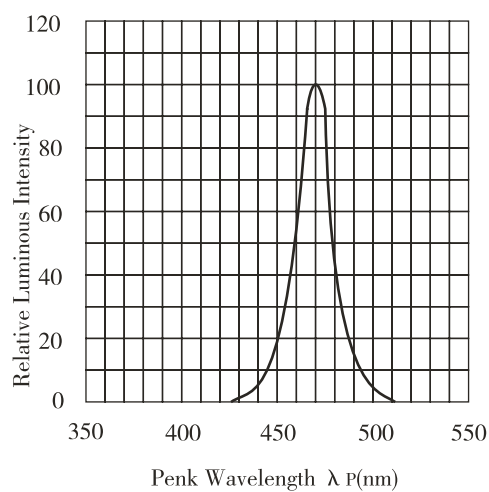
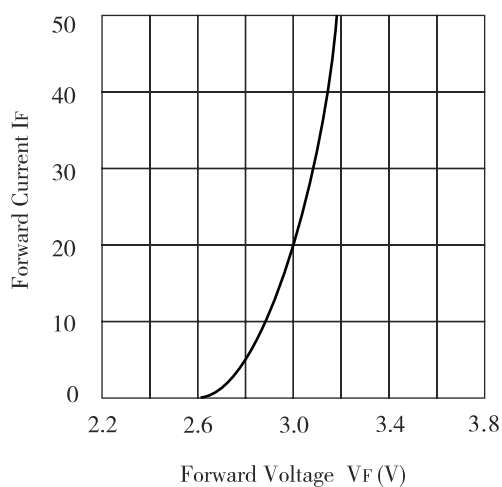
Parameter	Symbol	Condition	Rating	Unit
Power Dissipation	P_D	---	102	mW
Reverse Voltage	V_R	IR=50 μA	5	V
Forward Average Current	I_F	---	30	mA
Temperature coefficient	I/C	---	0.4	mA/ °C
Pulse Current	IFP	Duty=1/10,1kHz	100	mA
Operating Temperature Range	Topr	---	-25 ~ +85	°C
Storage Temperature Range	Tstg	---	-40 ~ +100	°C
Soldering Condition	Tsd	---	265°C/5sec	°C

NOTE:

Luminous Intensity Measurement allowance is $\pm 10\%$.

$2\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

The dominant wavelength is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES ($T_a=25^{\circ}\text{C}$)


Luminous Intensity Ranks(IF=20mA Ta=25°C)

Bin Code	Min(mcd)	Max(mcd)
S	770	1100
T	1100	1520
U	1520	1820
V	1820	2180
W	2180	2610
X	2610	3130