

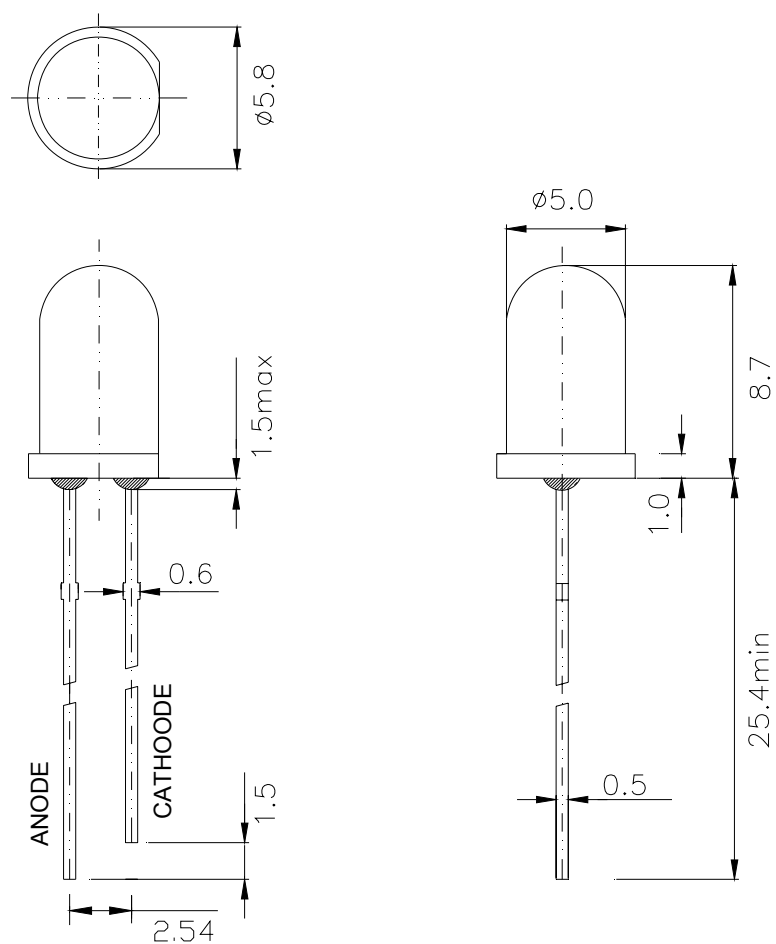
PRODUCT SPECIFICATION

Descriptions:

- 5mm Round Type
- Emitting Color: White
- Viewing Angle: 20°
- No Stopper

CUSTOMER APPROVED SIGNATURES

■ Package Dimensions



Material	Lens Color	Source Color
InGaN	Water Clear	Blue

Notes:

1. All dimensions in mm tolerance are $\pm 0.2\text{mm}$ unless otherwise noted.
2. An epoxy meniscus may extend about 1.5mm down the leads.
3. Burr around bottom of epoxy may be 0.5mm max.

■ Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Absolute maximum Rating	Unit
Power Dissipation	P _D	100	mW
Forward Current(DC) *2	I _F	30	mA
Peak Forward Current*1	I _{FP}	100	mA
Operation Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T _{sol}	Max.260°C for 5 sec Max. (3mm from the base of the epoxy bulb)	

*1Pulse width ≤ 0.1msec duty ≤ 1/10

*2For long term performance the drive currents between 10mA and 20mA are recommended. Please contact sales representative for more information on recommended drive conditions

■ Typical Electrical & Optical Characteristics (Ta = 25°C)

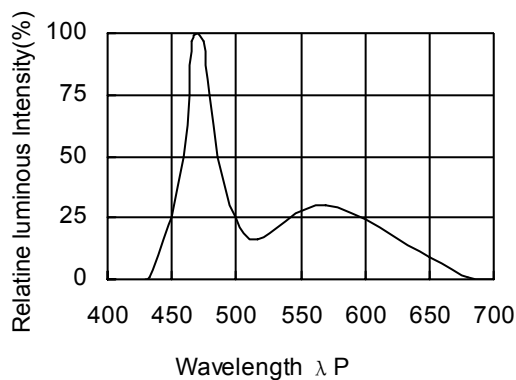
Items	Symbol	Condition	Min.	Type.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA	2.8	3.2	3.6	V
Reverse Current	I _R	V _R = 5V	---	---	10	μA
Chromaticity Coordinates	X	I _F = 20mA	---	0.28	---	---
	Y		---	0.29	---	---
CCT	T _c	I _F = 20mA	---	8000	---	K
Luminous Intensity	I _v	I _F = 20mA	20000	22000	25000	mcd
50% Power Angle	2 θ ½	I _F = 20mA	---	20	---	Deg

■ Notes:

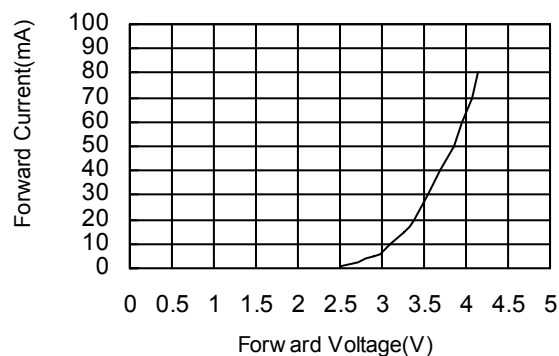
1. Tolerance of measurement of luminous intensity : ±15%
2. Tolerance of measurement of dominant wavelength : ±1.0nm
3. Tolerance of measurement of forward voltage : ±0.1V
4. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity

■ **Typical Electrical / Optical Characteristics Curves**(25°C Ambient Temperature Unless Otherwise Noted)

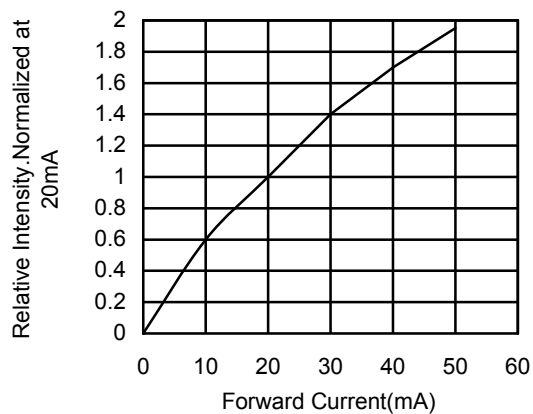
Spectrum Distribution $T_a=25^\circ$



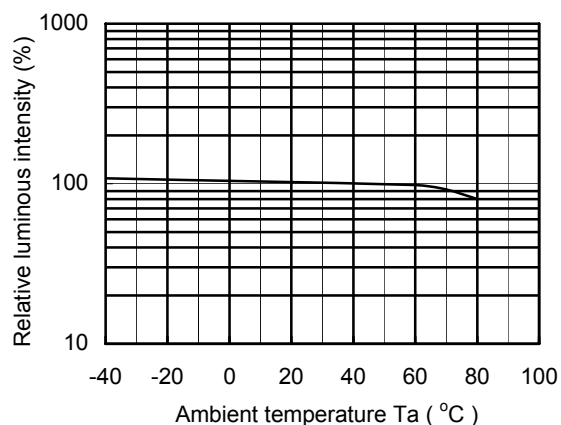
Forward Current vs. Forward Voltage



Relative Luminous Intensity vs. Forward Current



Relative Luminous Intensity vs. Ambient Temperature ($I_F=20\text{mA}$)



Forward Current Derating Curve

