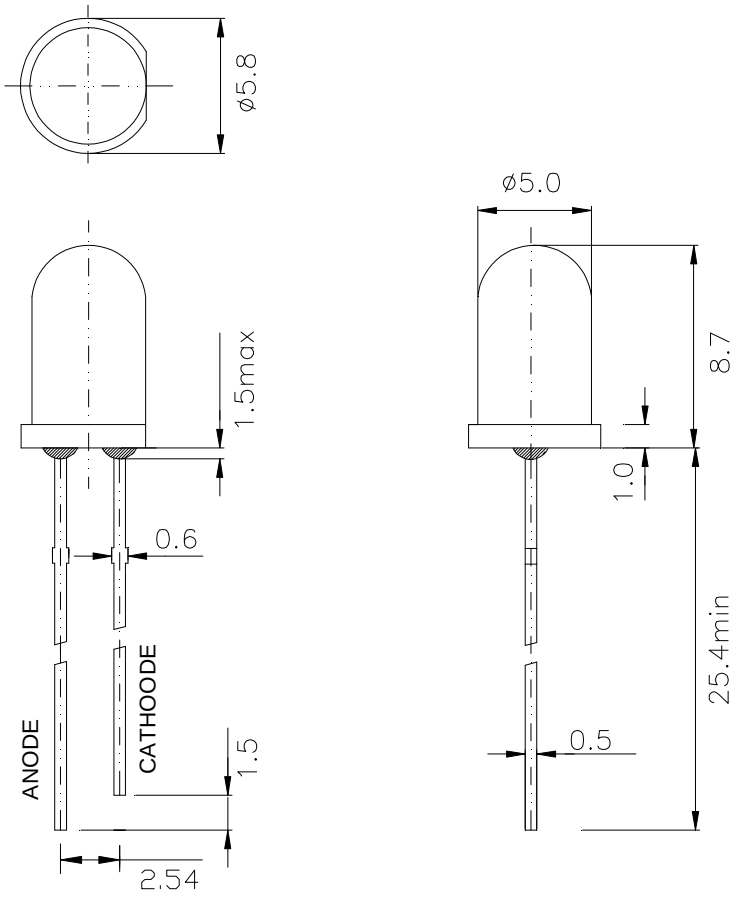
PRODUCT SPECIFICATION

Descriptions:

- 5mm Round Type
- Emitting Color: Red
- Viewing Angle: 30°
- No Stopper

CUSTOMER APPROVED SIGNATURES

■ Package Dimensions



Material	Lens Color	Source Color
AlGaInP	Water Clear	Red

Notes:

1. All dimensions in mm tolerance are ±0.2mm 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℃)

Items	Symbol	Absolute maximum Rating	Unit
Power Dissipation	P_D	80	mW
Forward Current(DC) *2	I_F	30	mA
Peak Forward Current*1	I_{FP}	100	mA
Operation Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Lead Soldering Temperature	T_{sol}	Max.260℃ 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℃)

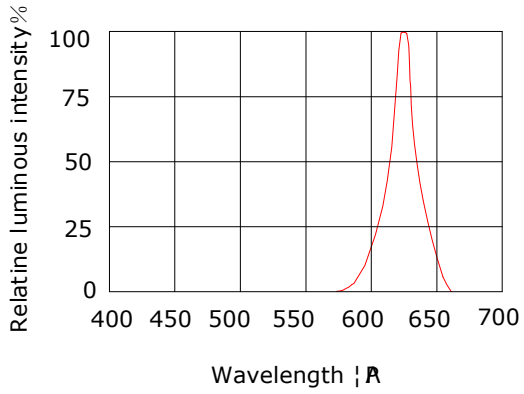
Items	Symbol	Condition	Min.	Type.	Max.	Unit
Forward Voltage	V_F	I_F = 20mA	1.8	2.2	2.4	V
Reverse Current	I_R	V_R = 5V	---	---	10	μA
Dominant Wavelength	λ_D	I_F = 20mA	620	625	630	nm
Luminous Intensity	I_V	I_F = 20mA	6000	7000	8000	mcd
50% Power Angle	2θ ½	I_F = 20mA	---	30	---	Deg

■ Notes:

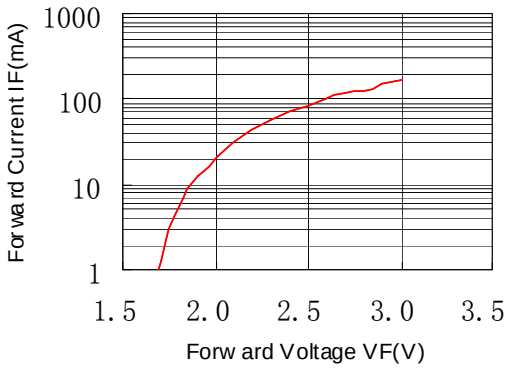
1. Tolerance of measurement of luminous intensity : ±15%
2. Tolerance of measurement of dominant wavelength : ±1.0nm
3. Tolerance of measurement of forward voltage : ±0.1V
4. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity

■ Typical Electrical Optical Characteristics Curves(25℃ Ambient Temperature Unless Otherwise Noted)

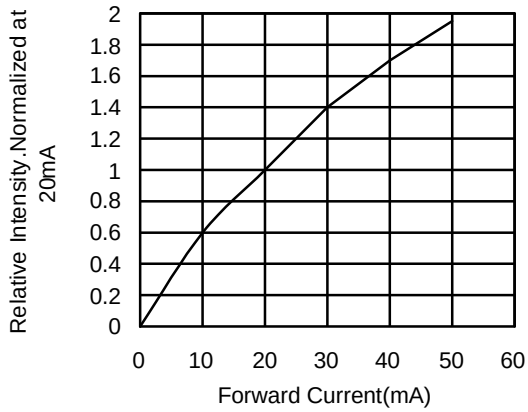
Spectrum Distribution Ta=25°



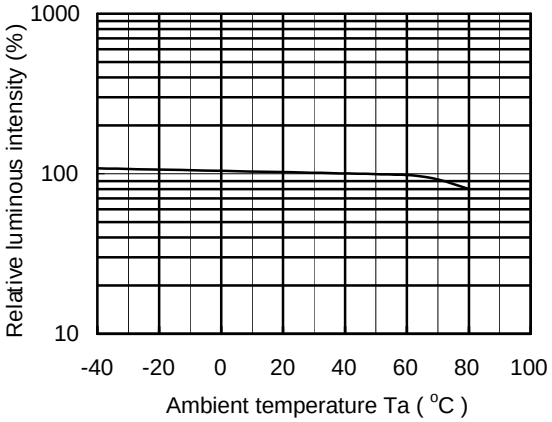
Forward Voltage vs.Forward Current(Ta=25℃)



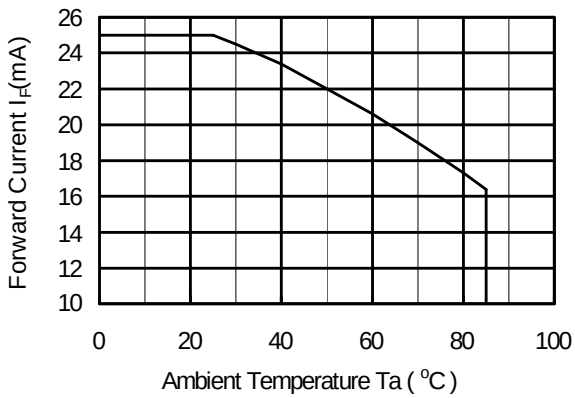
Relative Luminous Intensity vs.Forward Current



Relative Luminous Intensity vs. Ambient Temperature (I_F=20mA)



Forward Current Derating Curve



Beam Pattern