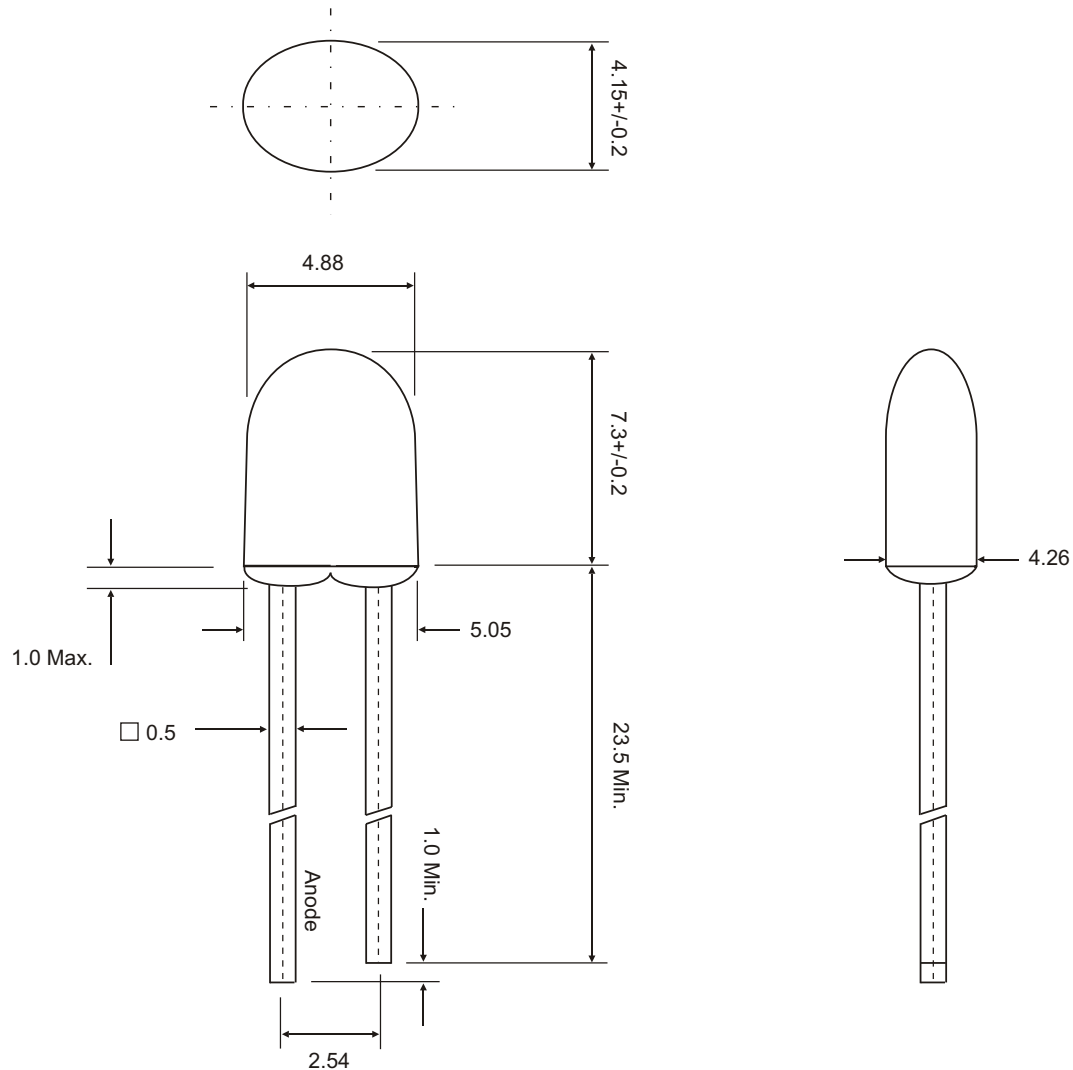


■ PACKAGE DIMENSIONS :



Chips Material	Emitting Color	Lens Shape	Lens Color
AlGaInP	Red	5mm Oval	Water Clear

Notes :

1. Lead spacing is measured where the leads emerge from the package
2. Protruded resin under flange 1.5mm(0.059") Max.
3. All dimensions are in millimeters, Tolerance is 0.25mm unless otherwise noted.



■ Electro-Optical Characteristics (Ta=25°C)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity		I _v	See Page 4 for our * Ranking System*			mcd	I _F = 20 mA
Viewing Angle *	X	2θ 1/2		30		deg.	I _F = 20 mA
	Y			15			
Peak Emission Wavelength		λ P	See Page 4 for our * Ranking System*			nm	I _F = 20 mA
Spectrum Radiation Bandwidth		Δλ		25		nm	I _F = 20 mA
Forwards Voltage		V _F	See Page 4 for our * Ranking System*			V	I _F = 20 mA
Recommended Working Current			15	20	25	mA	

* θ1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity.

■ Absolute Maximum Ratings (Ta=25°C)

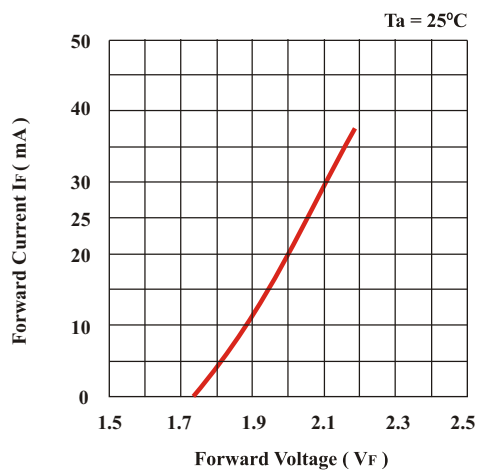
Characteristic	Symbol	Ratings	Unit
Power Dissipation	P _D	130	mW
Forward Current	I _F	25	mA
Peak Forward Current #	I _{PF}	100	mA
Reverse Voltage	V _R	5	V
Reverse Current	I _R	50	μA
Operation Temperature Range	T _{opr}	-30 ~ + 80	°C
Storage Temperature Range	T _{stg}	-40 ~ + 100	°C
Soldering Temperature Range *	T _{sol}	250°C for 3 seconds (max.)	

Duty ratio = 1/16 , Pulse width = 0.1ms

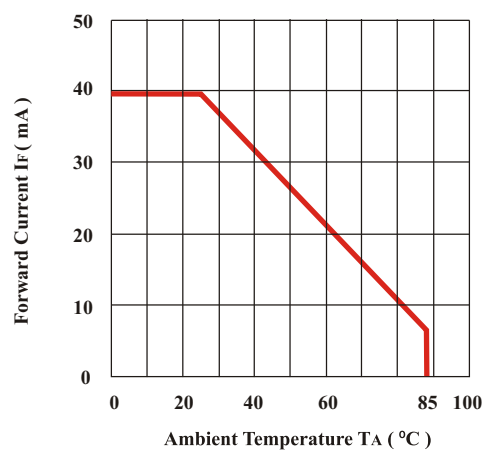
* Lead soldering temperature range (1.6mm from Body)

■ Typical Electro-Optical Characteristics Curves

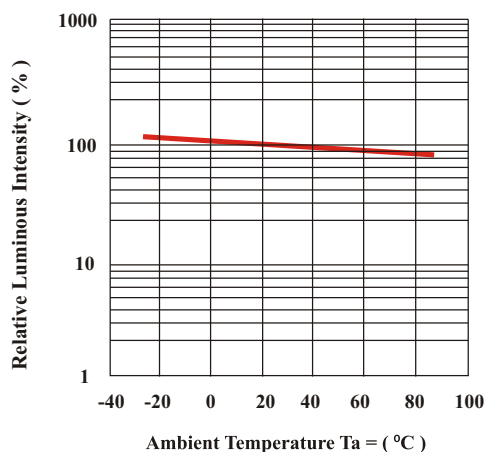
Forward Current vs Forward Voltage



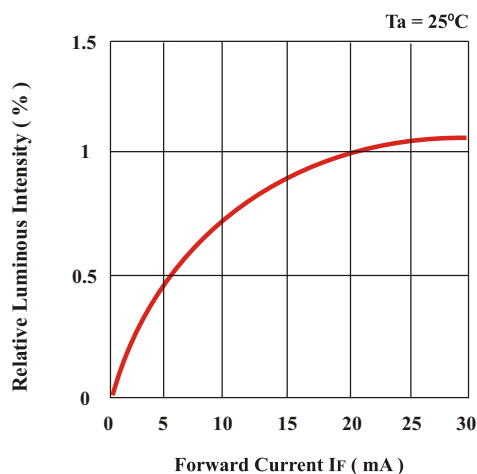
Forward Current Derating Curve



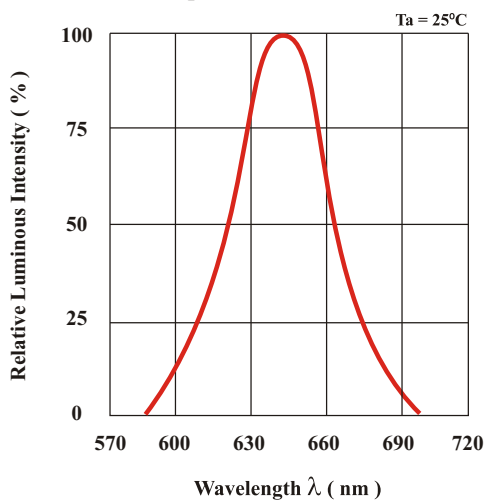
Luminous Intensity vs Ambient Temperature



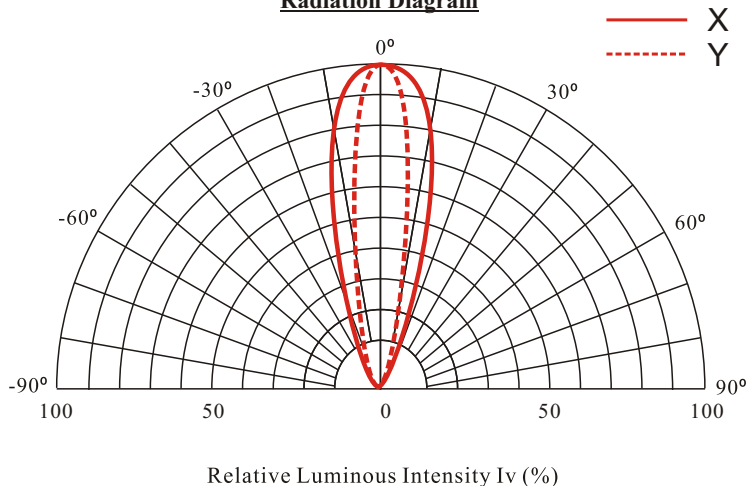
Luminous Intensity vs Forward Current



Spectrum Distribution



Radiation Diagram



■ Ranking System (Ta = 25°C , If = 20mA)

► Peak Wavelength

Rank Code	Range in (nm)
1	615 ~ 620
2	620 ~ 625
3	625 ~ 630
4	630 ~ 640
5	640 ~ 660

► Luminous Intensity (Iv)

Rank Code	Range in (mcd)
A1	50 ~ 100
A2	100 ~ 200
A3	200 ~ 350
A4	350 ~ 500
A5	500 ~ 800

Rank Code	Range in (mcd)
A6	800 ~ 1000
A7	1000 ~ 1400
A8	1400 ~ 2000
A9	2000 ~ 3000
A10	3000 ~ 4000

► Forward Voltage (Vf) with 0.1V in Difference

Rank Code	Range in (V)
11	1.7 ~ 1.8
12	1.8 ~ 1.9
13	1.9 ~ 2.0
14	2.0 ~ 2.1
15	2.1 ~ 2.2
16	2.2 ~ 2.3

Rank Code	Range in (V)
17	2.3 ~ 2.4

Notes :

- 1 . The above data is adjustable. For further information please feel free to contact our Eng. Dept
- 2 . The tolerance for the wavelength is +/- 1 nm
- 3 . The tolerance for the forward current is +/- 0.1V
- 4 . The tolerance for the luminous intensity is +/- 15%