

Features

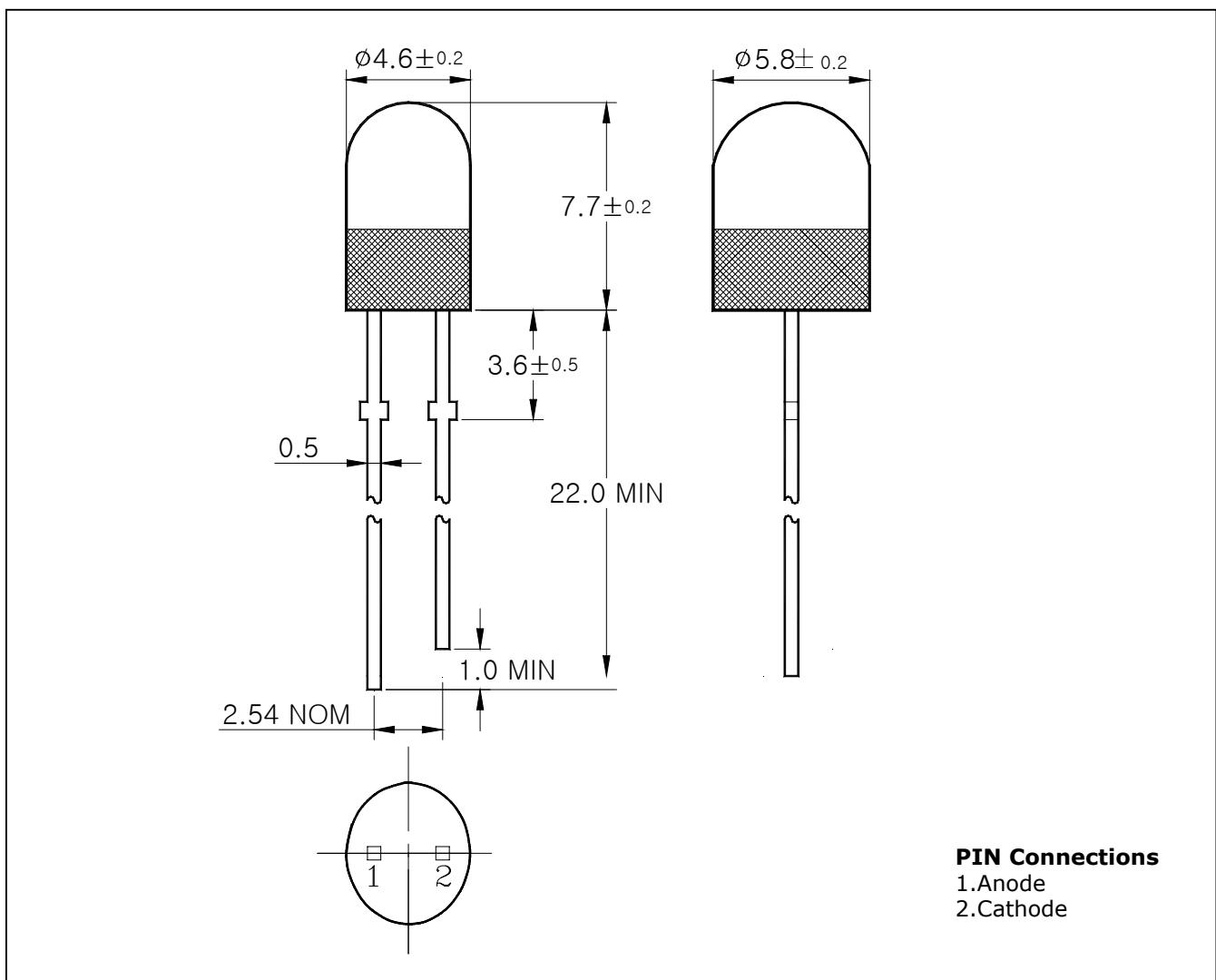
- Red colored transparency lens type
- Ellipse type(X=4.6mm, Y=5.8mm)
- Ultra luminosity
- Flangeless package
- High power LEDs
- Oval shape
- Lens Color : Red
- View Angle : 70 ° / 34 °

Application

- Full color displays
- Message boards
- Variable message signs(VMS)

Outline Dimensions

unit : mm

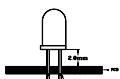


Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P _D	110	mW
Forward Current	I _F	40	mA
* ¹ Peak Forward Current	I _{FP}	65	mA
Reverse Voltage	V _R	4	V
Operating Temperature	T _{opr}	-20~85	°C
Storage Temperature	T _{stg}	-25~100	°C
* ² Soldering Temperature	T _{sol}	260°C for 5 seconds	

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

*2.Keep the distance more than 2.0mm from PCB to the bottom of LED package



Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit	
Forward Voltage	V _F	I _F = 20mA	1.6	2.1	2.5	V	
Luminous Intensity	I _V	I _F = 20mA	68	155	350	mcd	
Peak Wavelength	λ _P	I _F = 20mA	-	660	-	nm	
Spectrum Bandwidth	Δ λ	I _F = 20mA	-	20	-	nm	
Reverse Current	I _R	V _R =4V	-	-	10	uA	
Half Angle	θ _{1/2}	X Y	I _F = 20mA	-	±17	-	deg
				-	±35	-	

*3. θ_{1/2} is the off-axis angle where the luminous intensity is 1/2 the peak intensity

*4. Luminous Intensity Maximum tolerance for each Grade Classification limit is ±18%

*4. Luminous Intensity classification

K	L	M	N
68~100	100~155	155~230	230~350

Characteristic Diagrams

Fig. 1 $I_F - V_F$

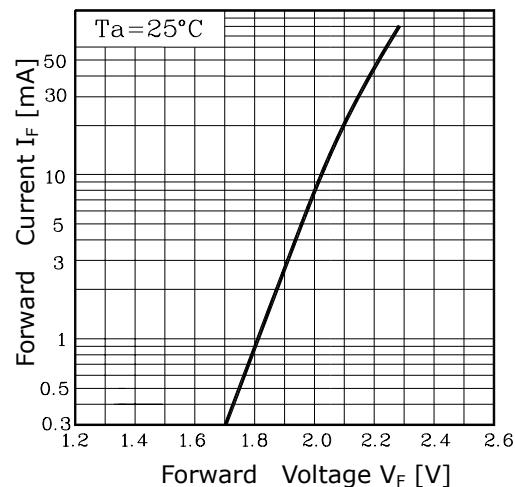


Fig. 2 $I_V - I_F$

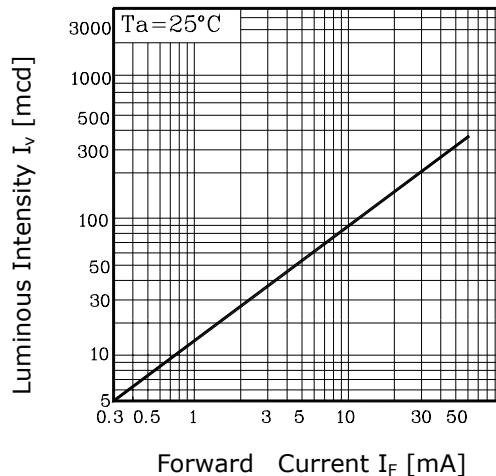


Fig. 3 $I_F - T_a$

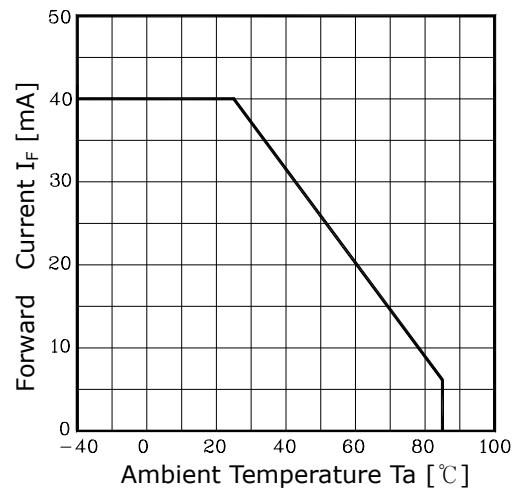


Fig.4 Spectrum Distribution

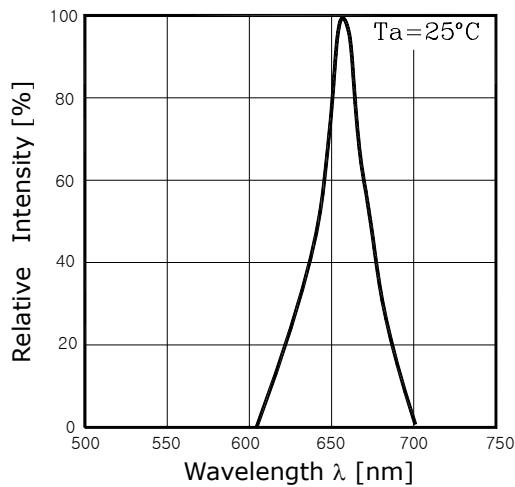


Fig. 5-1 Radiation Diagram(X)

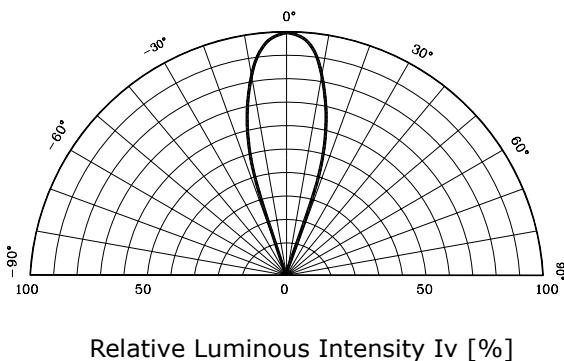
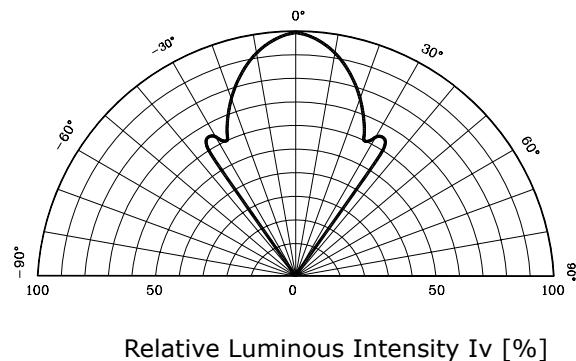


Fig. 5-2 Radiation Diagram(Y)



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