AUK Semiconductor

SHE164RC(B)

High Efficiency LED Lamp

Features

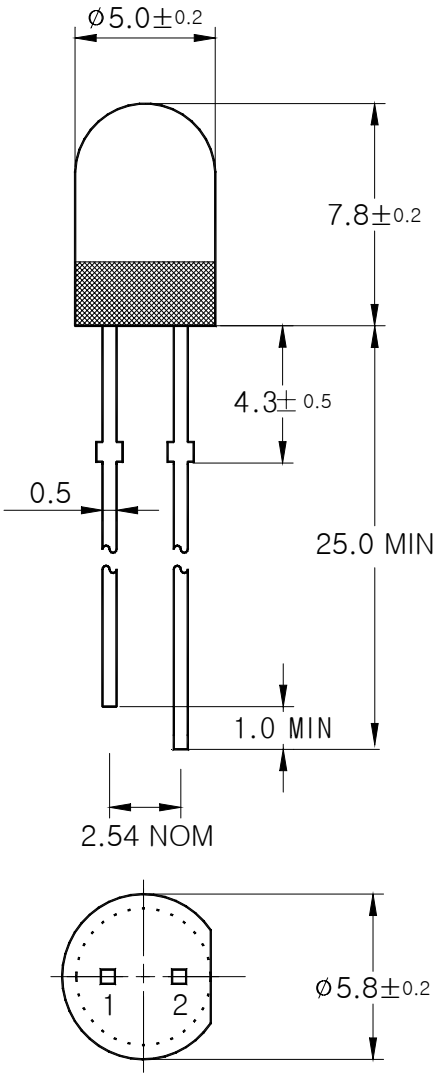
- Red Colored transparency lens type
- ϕ5mm(T-13/4) all plastic mold type
- Super luminosity no flange type

Application

- Message boards

Outline Dimensions

unit : mm

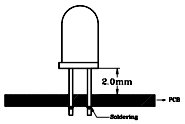


PIN Connections
1. Cathode
2. Anode

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	℃
Storage Temperature	T_{stg}	-30～100	℃
*[2]Soldering Temperature	T_{sol}	260℃ 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

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F= 20mA	1.6	1.8	2.5	V
*[4]Luminous Intensity	I_V	I_F= 20mA	155	250	520	mcd
Peak Wavelength	λ_P	I_F= 20mA	-	660	-	nm
Spectrum Bandwidth	$\Delta\lambda$	I_F= 20mA	-	20	-	nm
Reverse Current	I_R	V_R=4V	-	-	10	uA
*[3]Half Angle	$\theta 1/2$	I_F= 20mA	-	±20	-	deg

*3. $\theta 1/2$ 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

M	N	O
155~230	230~350	350~520

Characteristic Diagrams

Fig. 1 I_F - V_F

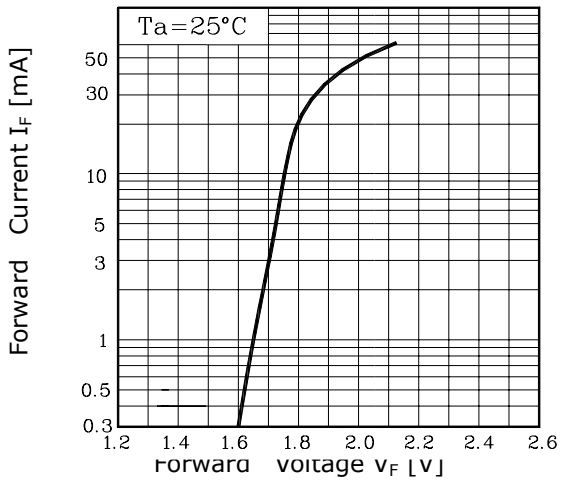


Fig. 2 I_V - I_F

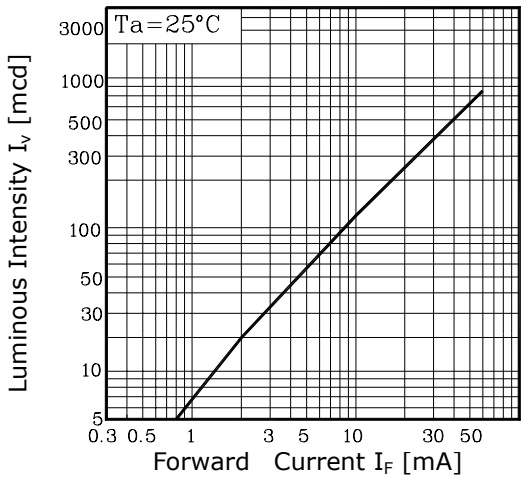


Fig. 3 I_F – Ta

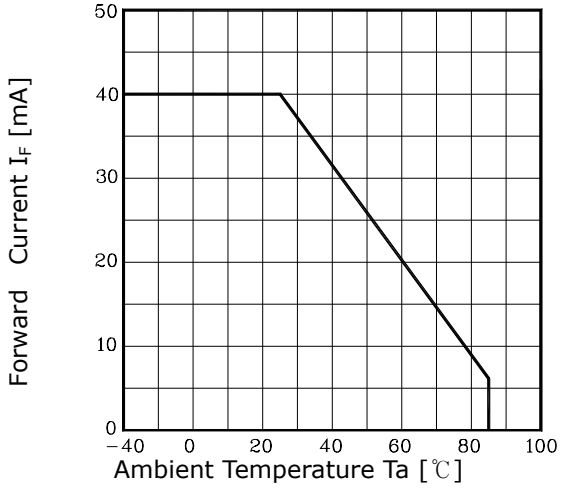


Fig.4 Spectrum Distribution

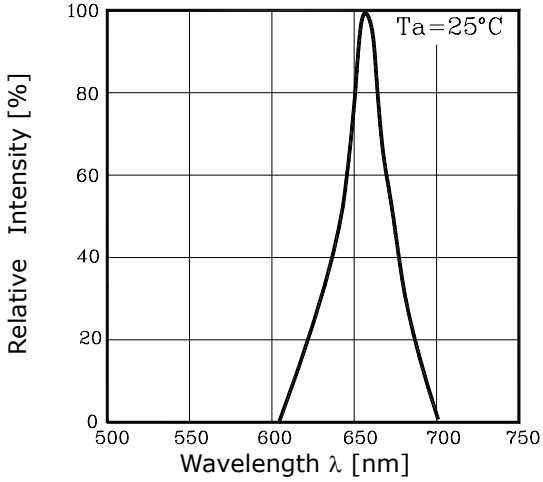
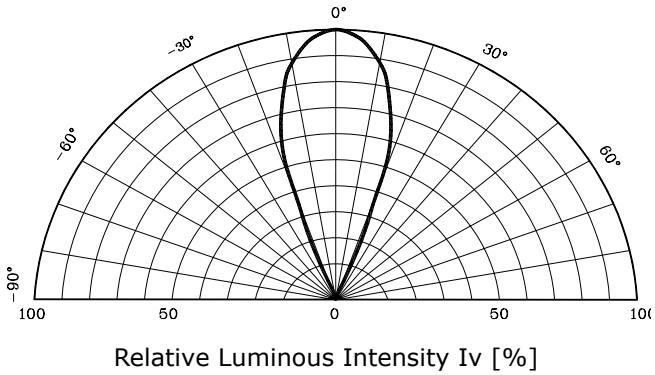


Fig. 5 Radiation Diagram



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