

Features

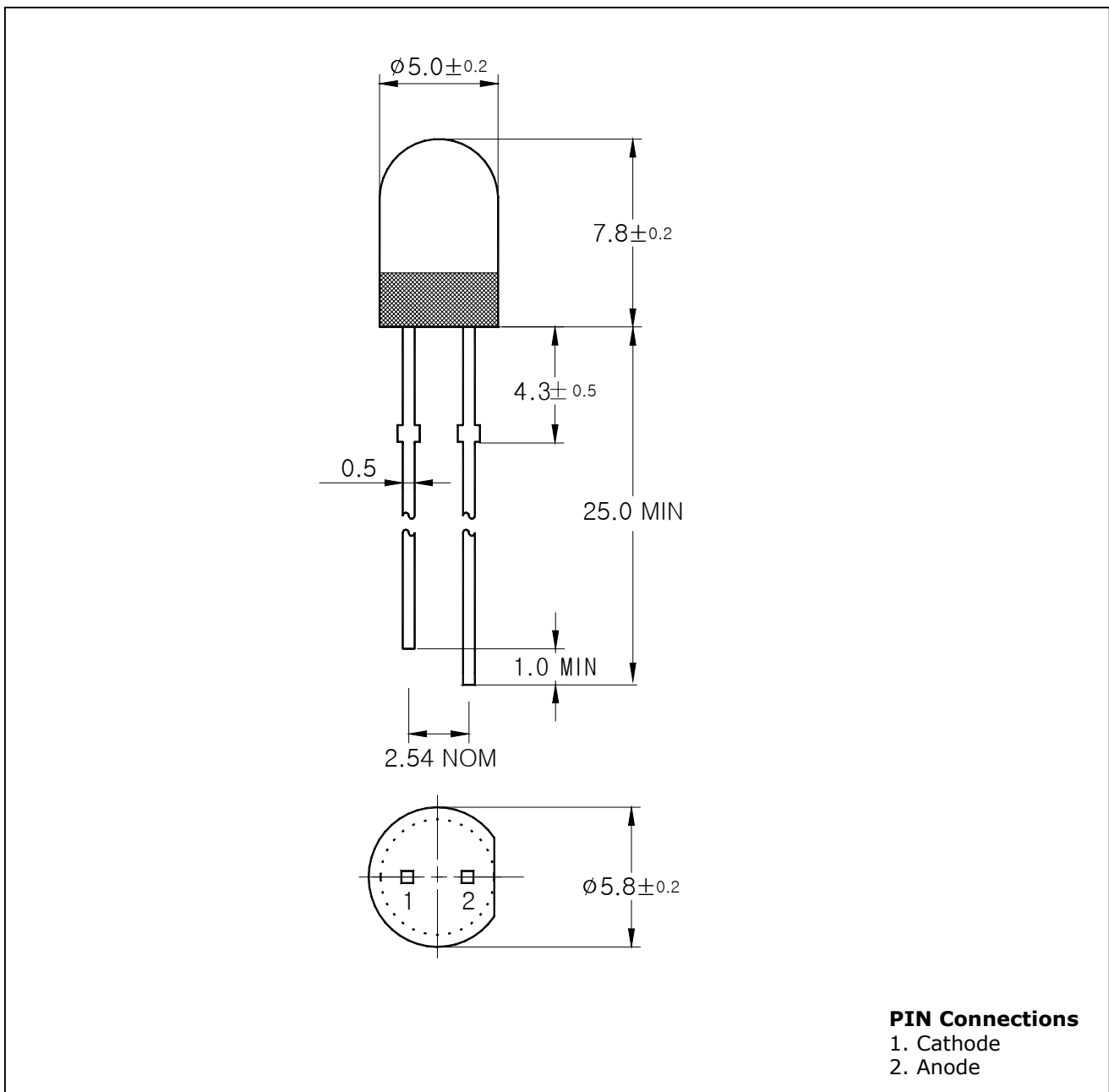
- Red Colored transparency lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Super luminosity no flange type

Application

- Message boards

Outline Dimensions

unit : mm

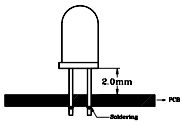


Absolute maximum ratings

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}	-30 ~ 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

$T_a = 25^\circ\text{C}$

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	1.6	1.8	2.5	V
*4 Luminous Intensity	I_V	$I_F = 20\text{mA}$	155	250	520	mcd
Peak Wavelength	λ_P	$I_F = 20\text{mA}$	-	660	-	nm
Spectrum Bandwidth	$\Delta\lambda$	$I_F = 20\text{mA}$	-	20	-	nm
Reverse Current	I_R	$V_R = 4\text{V}$	-	-	10	uA
*3 Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	± 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 $\pm 18\%$

*4. Luminous Intensity classification

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

Characteristic Diagrams

Fig. 1 $I_F - V_F$

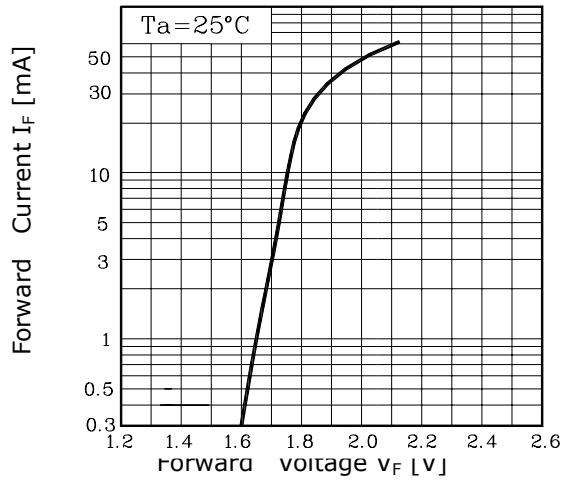


Fig. 2 $I_V - I_F$

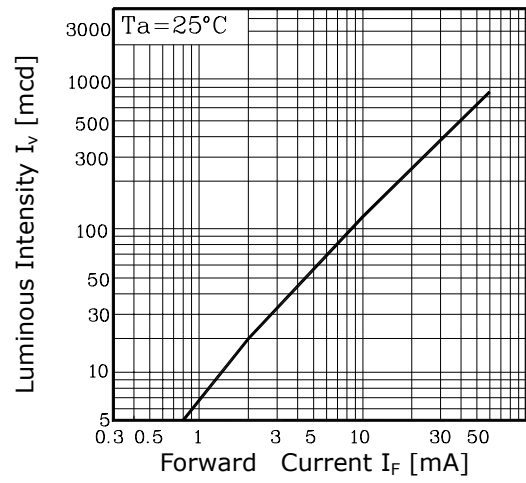


Fig. 3 $I_F - T_a$

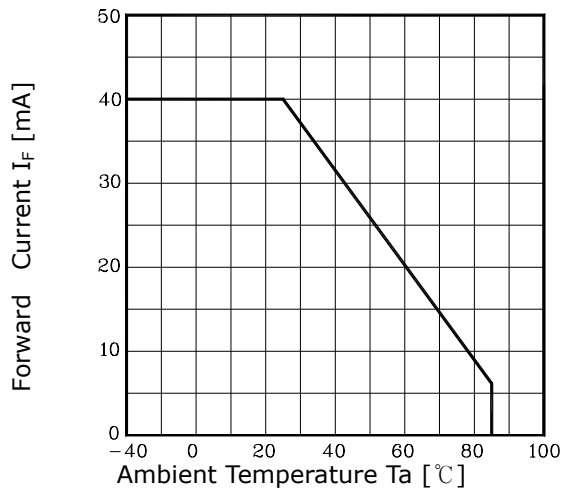


Fig. 4 Spectrum Distribution

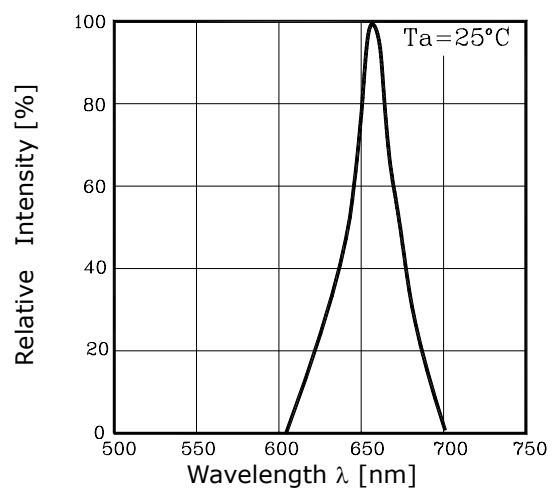
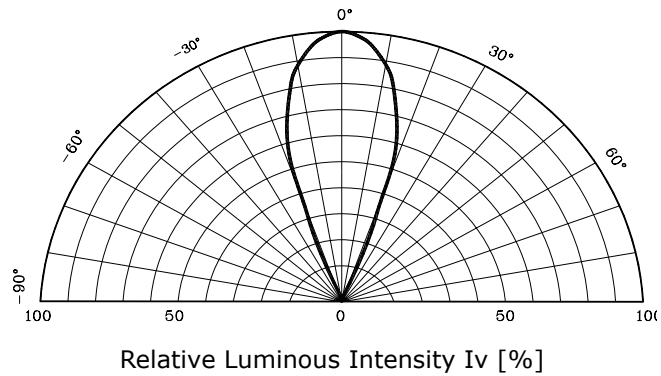


Fig. 5 Radiation Diagram



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