



SR5427-U(B)

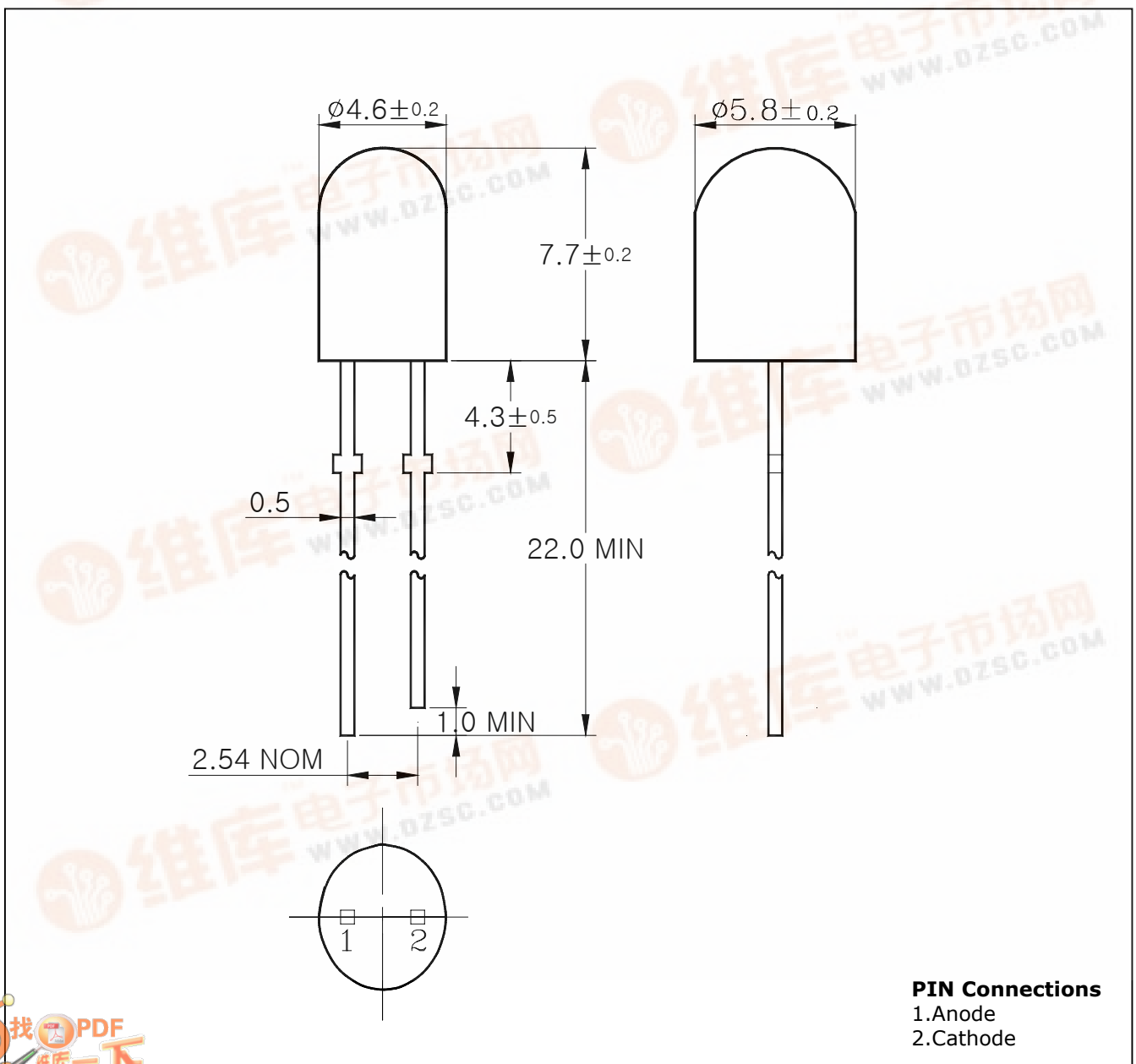
High Brightness LED Lamp

Features

- Colored transparency lens type
- Ellipse type(X=4.6mm, Y=5.8mm)
- Ultra luminosity
- Flangeless package

Outline Dimensions

unit : mm



Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	75	mW
Forward Current	I_F	30	mA
* ¹ Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	3	V
Operating Temperature	T_{opr}	-20 ~ 85	°C
Storage Temperature	T_{stg}	-25 ~ 100	°C
* ² Soldering Temperature	T_{sol}	260°C for 3 seconds	

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

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F= 20mA$	-	1.85	2.5	V
Luminous Intensity	I_V	$I_F= 20mA$	-	450	-	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
Half Angle	$\theta_{1/2}$	$I_F= 20mA$	-	± 17	-	deg
			-	± 35	-	

Characteristic Diagrams

Fig. 1 $I_F - V_F$

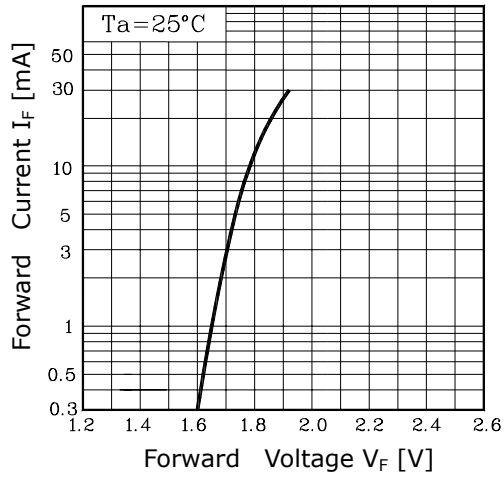


Fig. 2 $I_V - I_F$

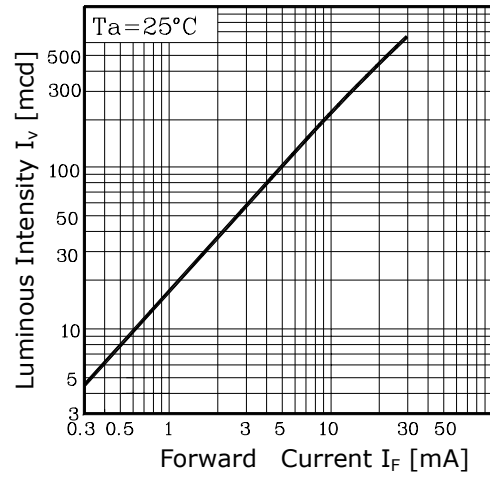


Fig. 3 $I_F - T_a$

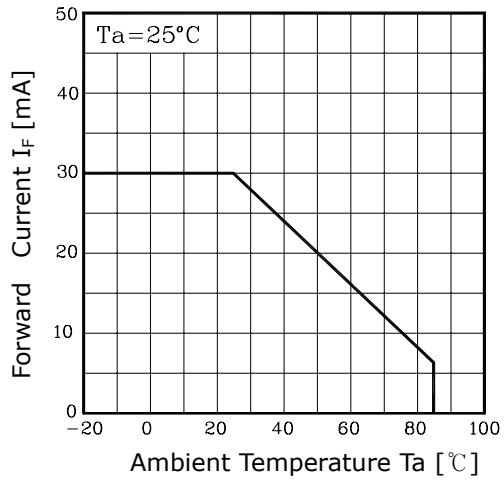


Fig.4 Spectrum Distribution

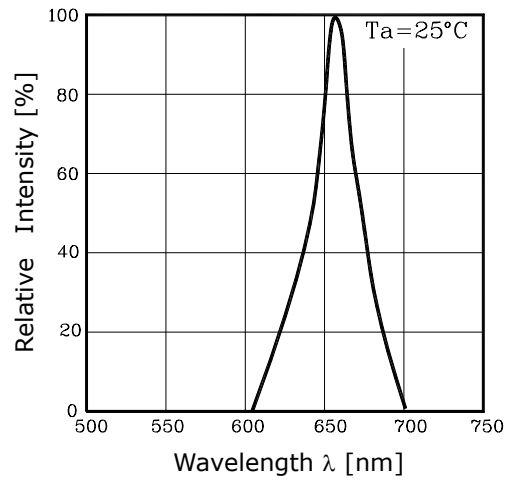


Fig. 5-1 Radiation Diagram(X)

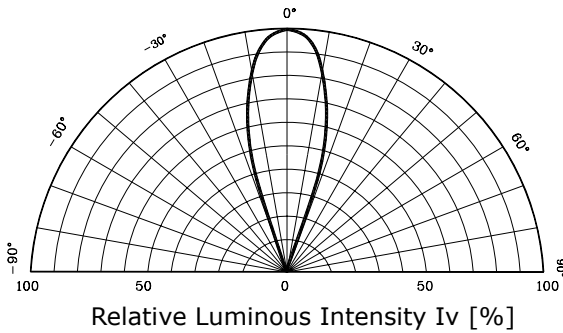


Fig. 5-2 Radiation Diagram(Y)

