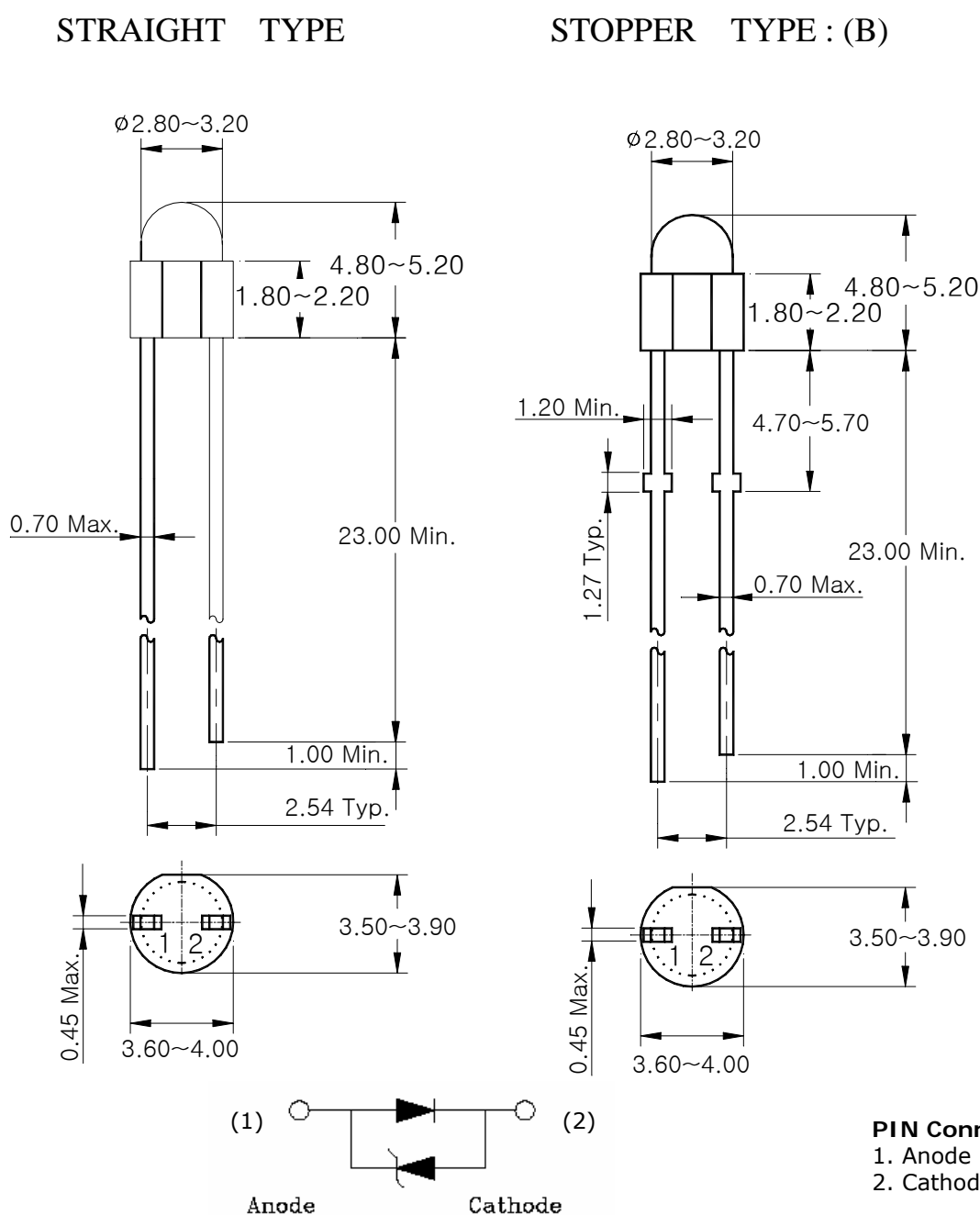


Features

- Colorless transparency lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- White emission color : $X=0.23\sim 0.32$
 $Y=0.20\sim 0.37$
- Viewing angle : $\pm 22^\circ$ / Super luminosity
- **E ; ESD Protected (IEC 61000-4-2 $\pm 7\text{V}$ (contact mode))**

Outline Dimensions

unit : mm



SW3372E-H / SW3372E-H(B)

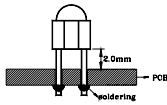
Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	110	mW
Forward current	I_F	30	mA
*1Peak forward current	I_{FP}	50	mA
Operating temperature range	T_{opr}	-25 ~ 85	°C
Storage temperature range	T_{stg}	-30 ~ 100	°C
*2Soldering temperature	T_{sol}	260°C for 10 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



- ※ Recommend document
-. LED is very sensitive to ESD.

Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F = 20\text{mA}$	3.0	-	3.6	V
*5 Luminous intensity	I_V	$I_F = 20\text{mA}$	1760	-	3200	mcd
*3Chromaticity coordinates	X	$I_F = 20\text{mA}$	0.23	-	0.32	-
	Y		0.20	-	0.37	-
*4Half angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	± 22	-	deg

*3. The chromaticity coordinates are derived from the CIE 1931 Chromaticity Diagram and represent the perceived color of the device.

*4. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

*5. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$

● V_F / I_V Grade Classification (Ta=25°C)

Test Condition @ $I_F = 20\text{mA}$	
Forward Voltage [V]	Luminous Intensity [mcd]
1 : 3.0~3.2	S_1 : 1760~2100
2 : 3.2~3.4	S_2 : 2100~2640
3 : 3.4~3.6	T_1 : 2640~3200

Characteristic Diagrams

Fig. 1 $I_F - V_F$

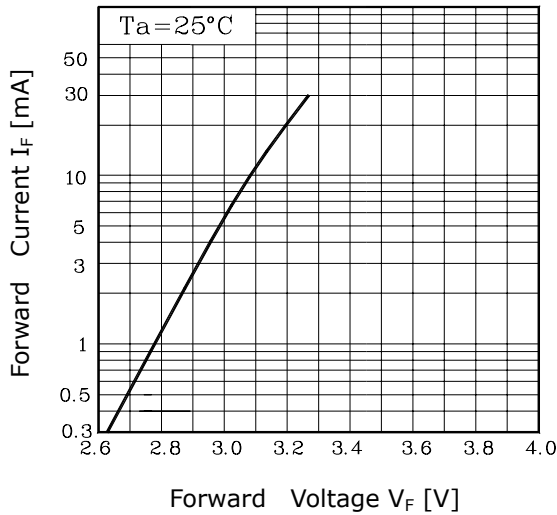


Fig. 2 $I_V - I_F$

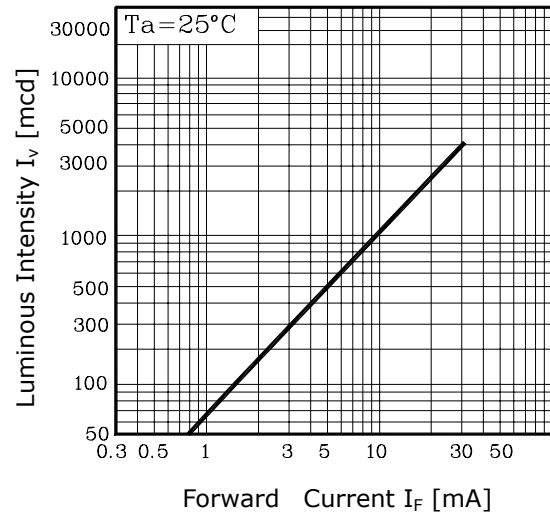


Fig. 3 $I_F - T_a$

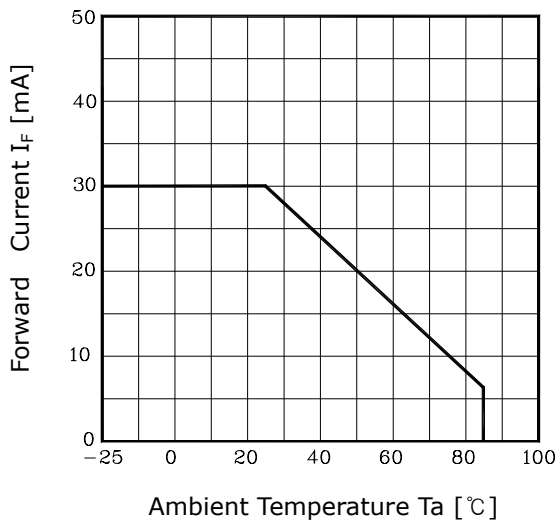


Fig. 4 Spectrum Distribution

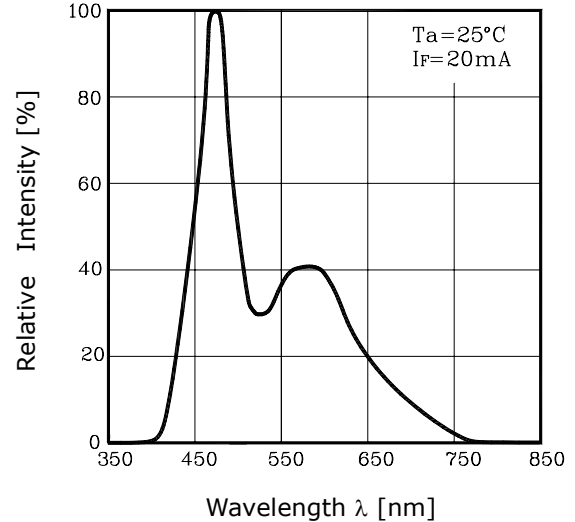
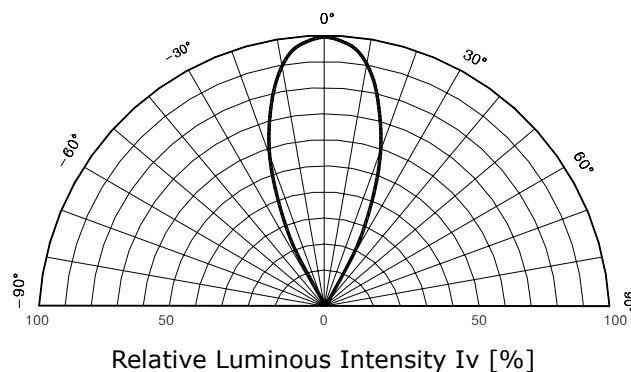
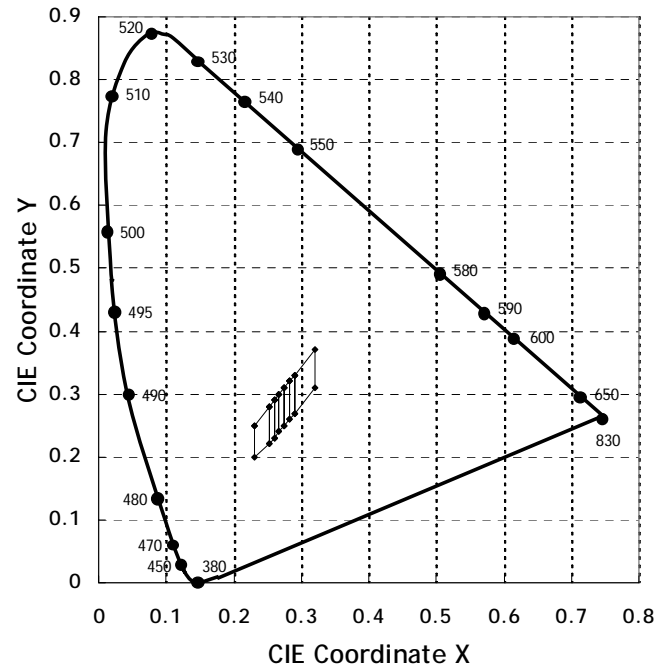
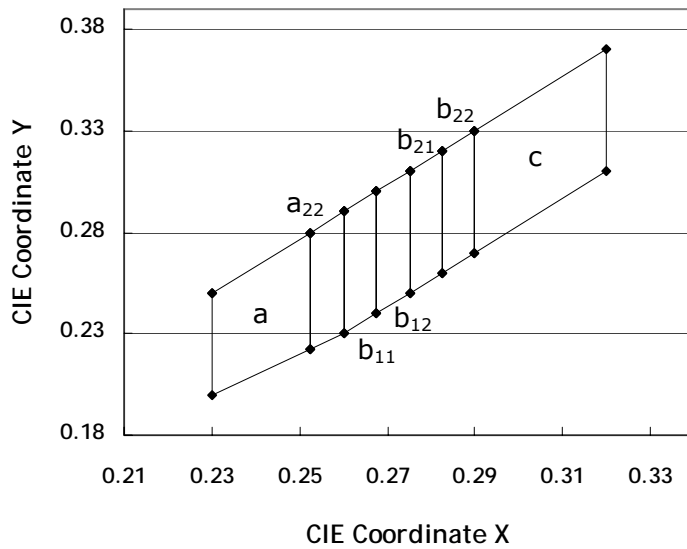


Fig. 5 Radiation Diagram



◆ CIE 1931 UCS Diagram



- CIE Coordinates Grade Classification ($T_a=25^{\circ}\text{C}$, $I_F=20\text{mA}$)

Color Bin	CIE Coordinates		Color Bin	CIE Coordinates	
	X	Y		X	Y
a	0.23	0.25	a ₂₂	0.2525	0.28
	0.23	0.20		0.2525	0.222
	0.2525	0.222		0.26	0.23
	0.2525	0.28		0.26	0.29
b ₁₁	0.26	0.29	b ₁₂	0.2675	0.3
	0.26	0.23		0.2675	0.24
	0.2675	0.24		0.275	0.25
	0.2675	0.3		0.275	0.31
b ₂₁	0.275	0.31	b ₂₂	0.2825	0.32
	0.275	0.25		0.2825	0.26
	0.2825	0.26		0.29	0.27
	0.2825	0.32		0.29	0.33
c	0.29	0.33			
	0.29	0.27			
	0.32	0.31			
	0.32	0.37			

(Do not use to combine grade classification. It must be used separately grade classification)

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