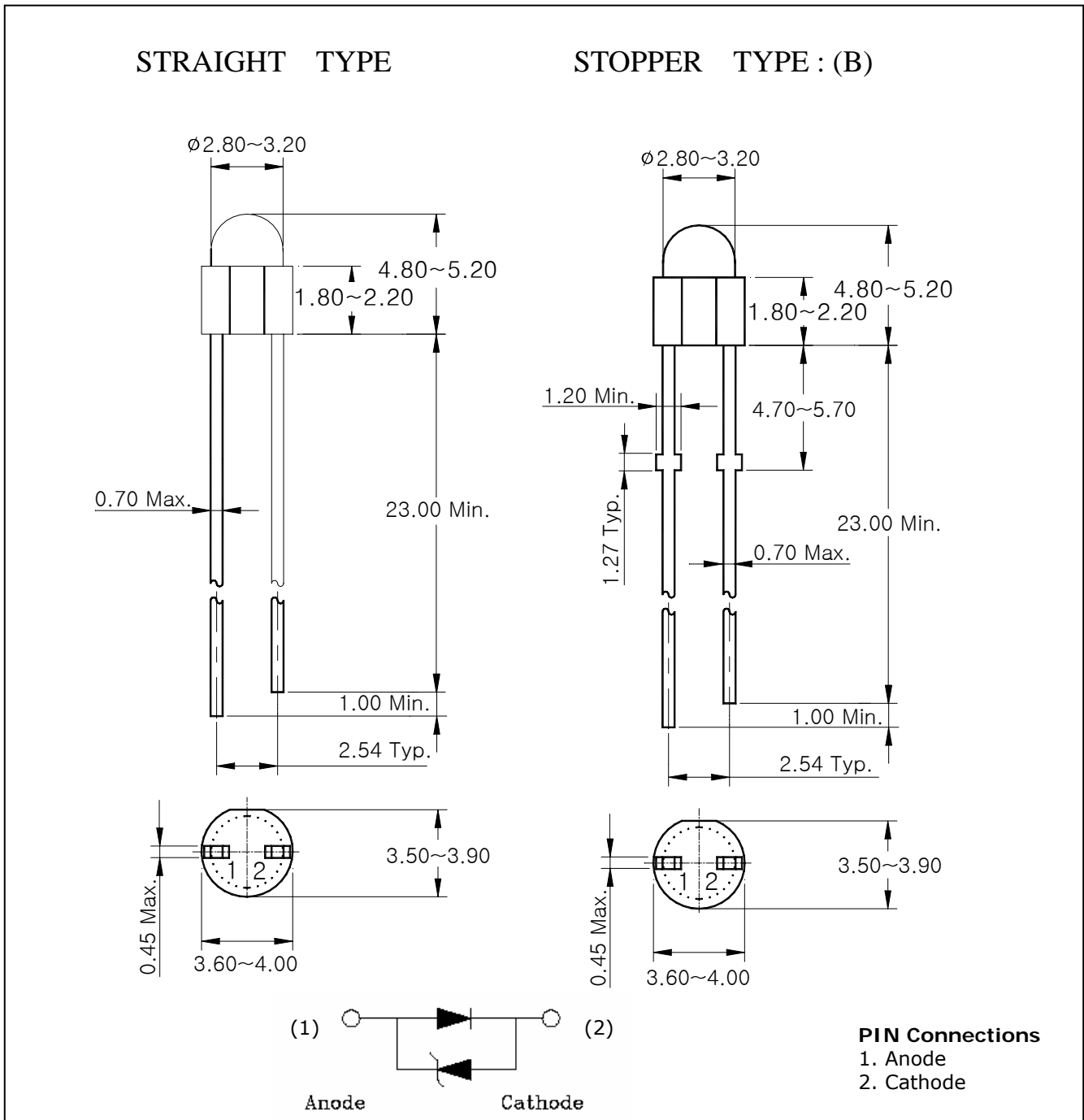


**Features**

- Colorless transparency lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- White emission color : X=0.23~0.32  
Y=0.20~0.37
- 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)

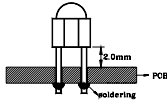
## Absolute Maximum Ratings

(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
*3 Chromaticity coordinates	X	$I_F=20\text{mA}$	0.23	-	0.32	-
	Y		0.20	-	0.37	-
*4 Half angle	$\theta_{1/2}$	$I_F=20\text{mA}$	-	$\pm 22$	-	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  $I_F - V_F$

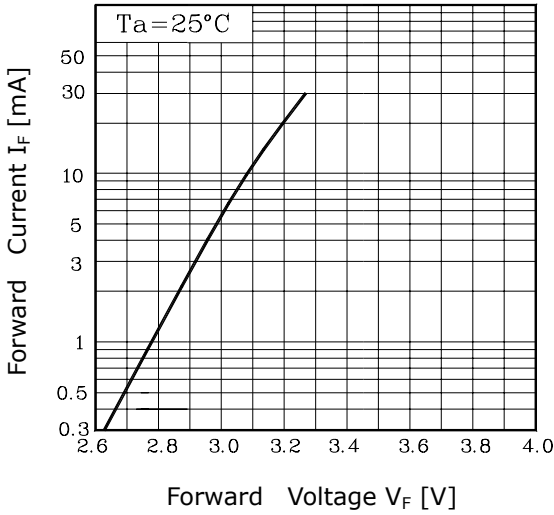


Fig. 2  $I_V - I_F$

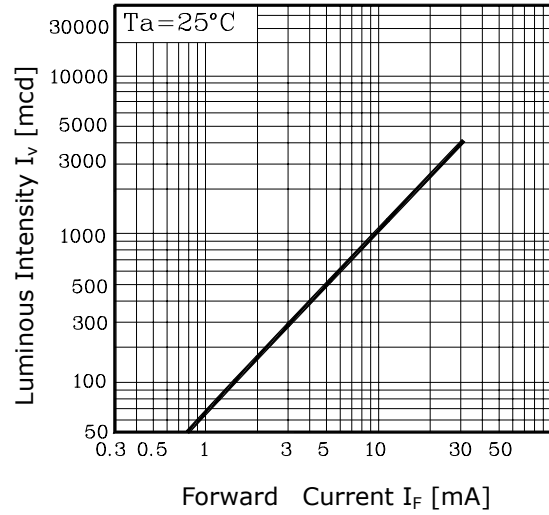


Fig. 3  $I_F - T_a$

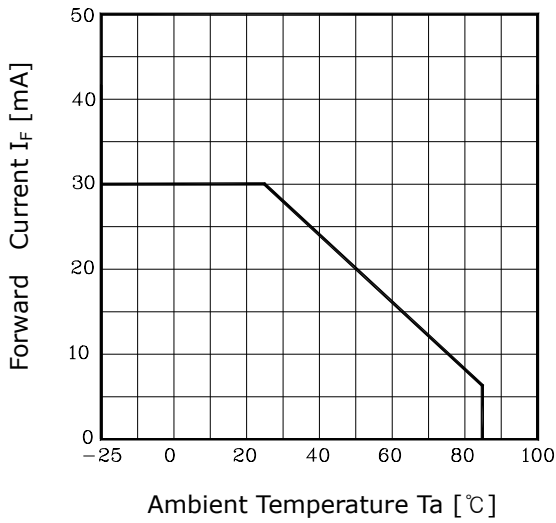


Fig. 4 Spectrum Distribution

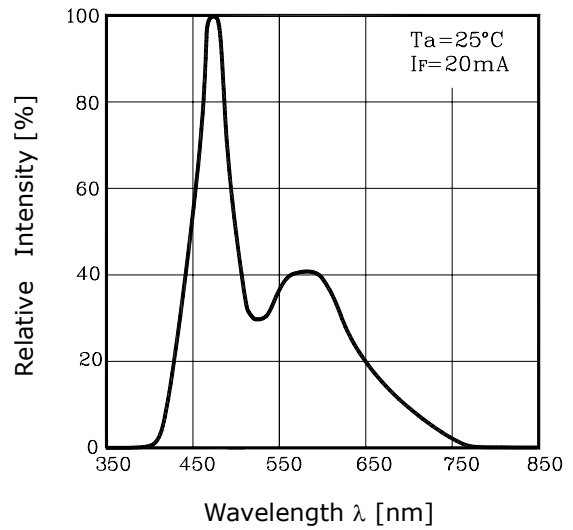
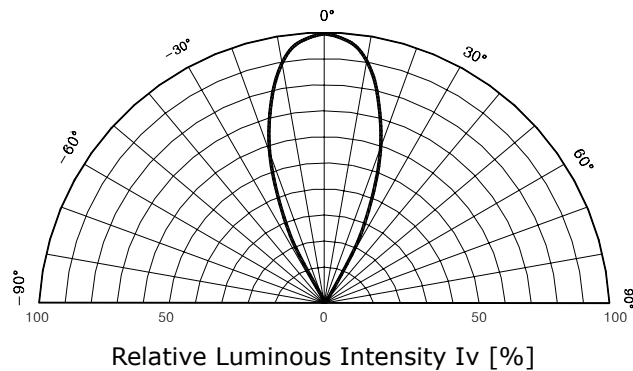
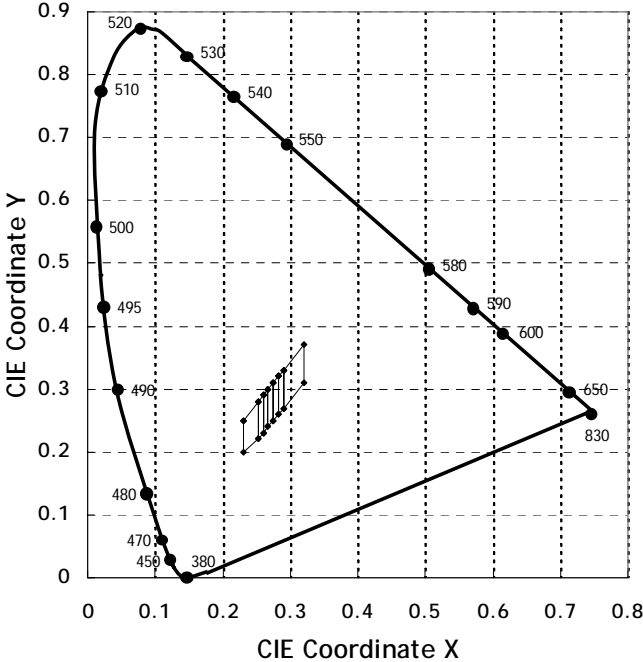
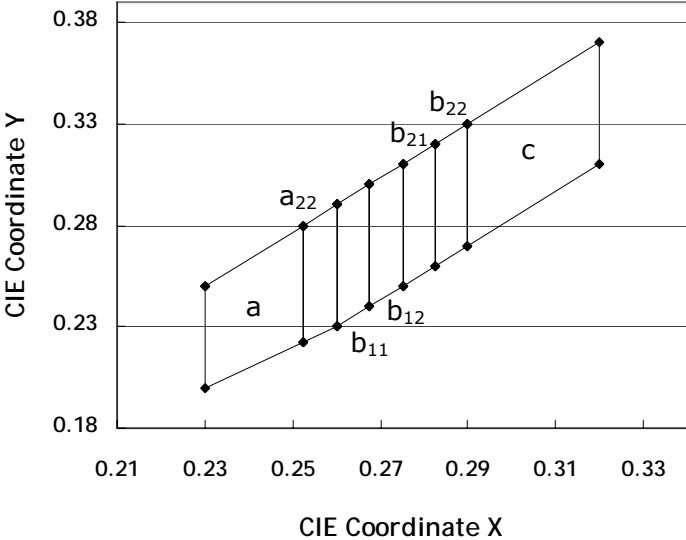


Fig. 5 Radiation Diagram



◆ CIE 1931 UCS Diagram



● CIE Coordinates Grade Classification (Ta=25°C, If=20mA)

Color Bin	CIE Coordinates		Color Bin	CIE Coordinates	
	X	Y		X	Y
a	0.23	0.25	a <sub>22</sub>	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 <sub>11</sub>	0.26	0.29	b <sub>12</sub>	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 <sub>21</sub>	0.275	0.31	b <sub>22</sub>	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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