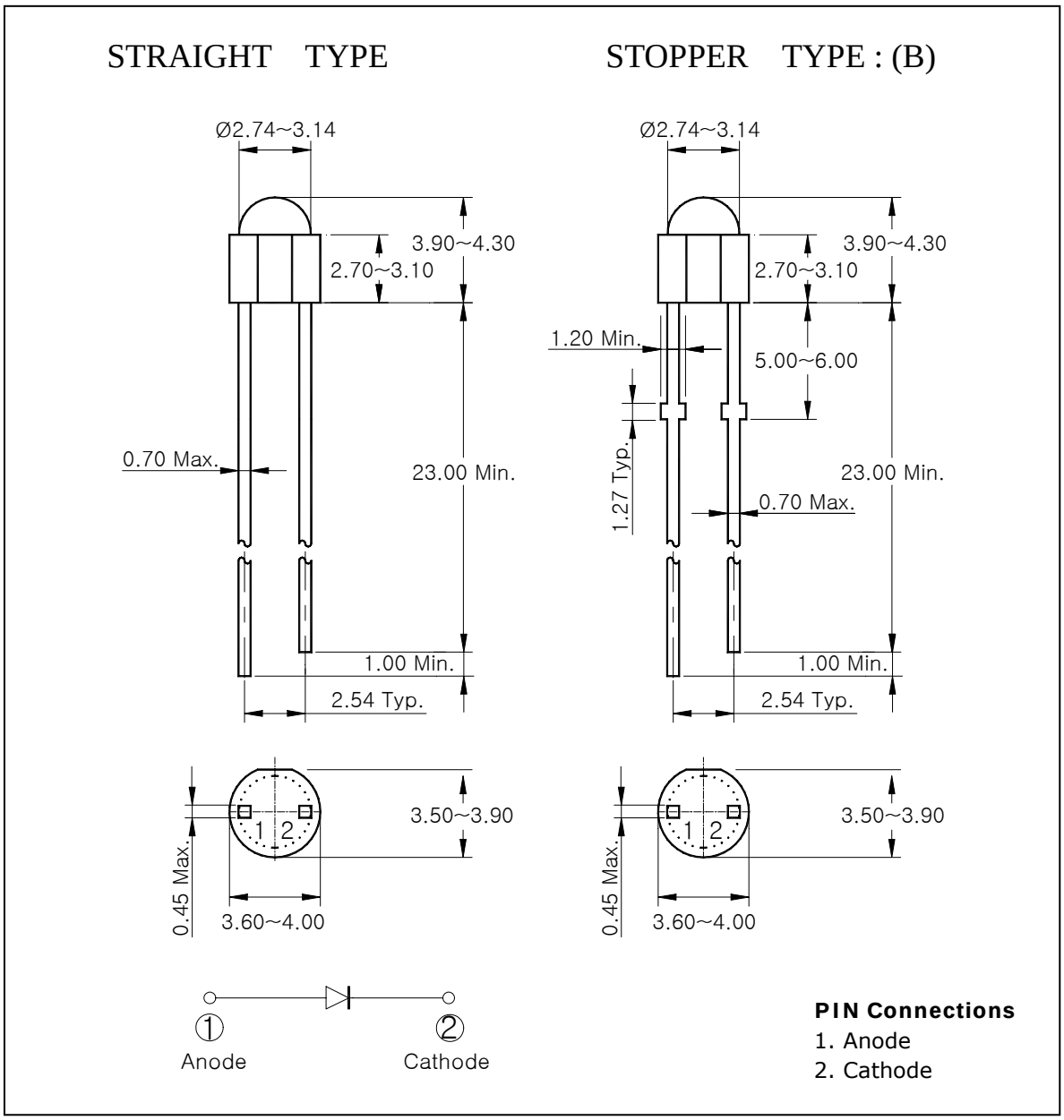
SO3318-E / SO3318-E(B)

1. Features

- Colorless transparency lens type
- ϕ3mm(T-1) all plastic mold type
- Super luminosity

2. Outline Dimensions

unit : mm



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When using this product, would you please refer to the latest specifications.

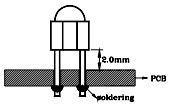
3. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	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	4	V
Operating temperature range	T_{opr}	-25～85	℃
Storage temperature range	T_{stg}	-30～100	℃
*[2]Soldering temperature	T_{sol}	260℃ 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



4. Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	V_F	I_F= 20mA	-	2.1	2.4	V
*[4]Luminous intensity	I_V	I_F= 20mA	155	-	520	mcd
Dominant wavelength	λ_P	I_F= 20mA	-	607	-	nm
Spectrum bandwidth	$\Delta\lambda$	I_F= 20mA	-	30	-	nm
Reverse current	I_R	V_R=4V	-	-	10	uA
*[3]Half Angle	θ1/2	I_F= 20mA	-	±45	-	deg

*3. θ1/2 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%

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◆ V_F / I_V Grade Classification (Ta=25℃)

Test Condition @I_F = 20mA
Luminous Intensity [mcd]
M : 155 ~ 230
N : 230 ~ 350
O : 350 ~ 520

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

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5. Characteristic Diagrams

Fig. 1 I_F - V_F

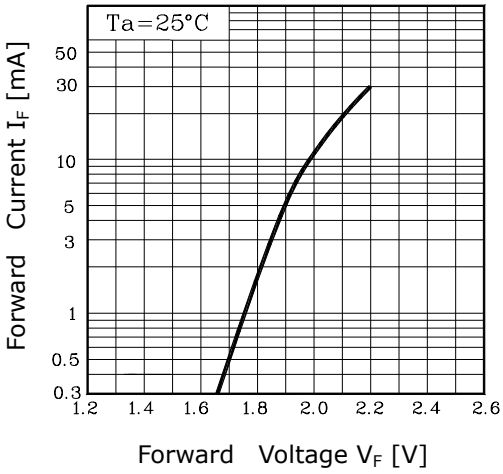


Fig. 2 I_V - I_F

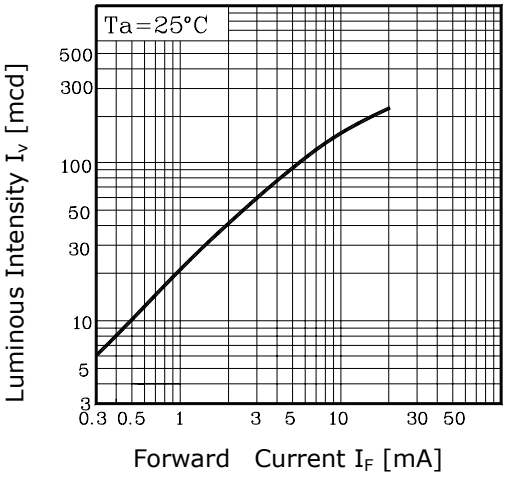


Fig. 3 I_F – Ta

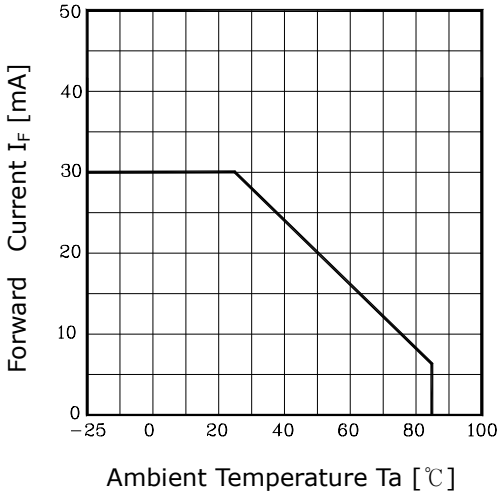


Fig.4 Spectrum Distribution

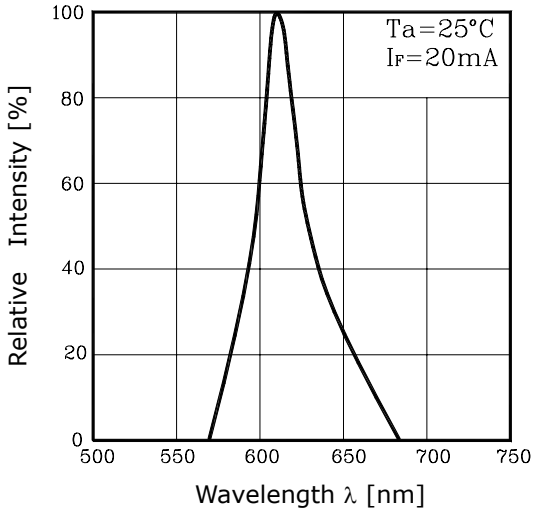
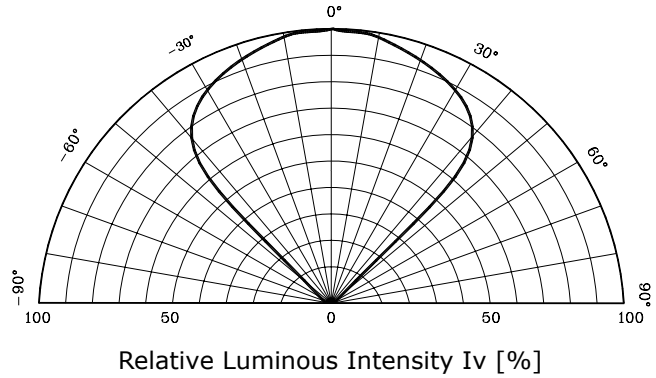


Fig. 5 Radiation Diagram



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