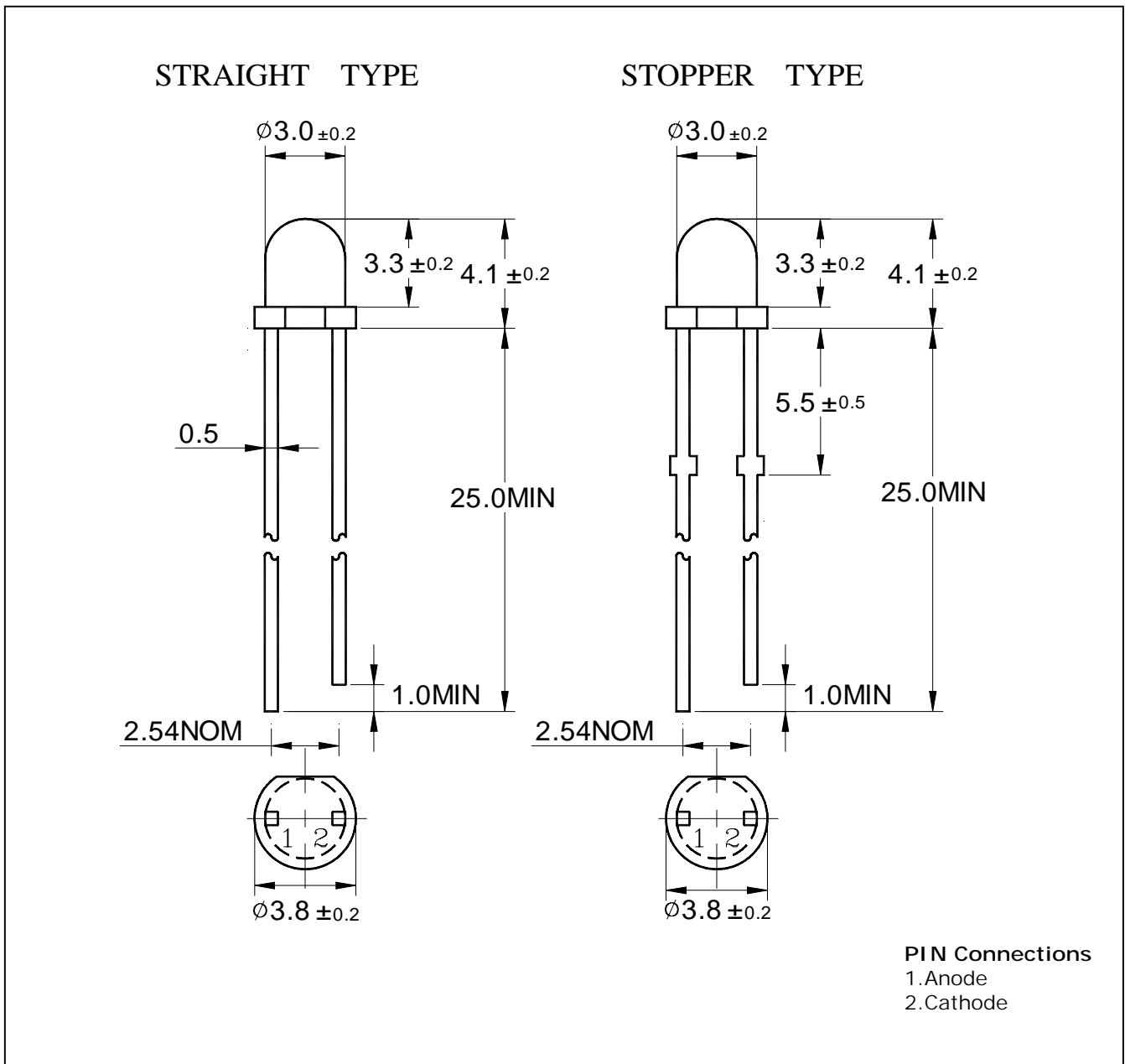


Features

- Red colored diffusion lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- Wide viewing angle
- Low power consumption

Outline Dimensions

unit : mm



Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	23	mW
Forward Current	I_F	10	mA
* ¹ Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25 85	
Storage Temperature	T_{stg}	-30 100	
* ² Soldering Temperature	T_{sol}	260 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

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 5mA$	-	1.9	2.3	V
* ³ Luminous Intensity	I_V	$I_F = 5mA$	-	2	-	mcd
Peak Wavelength	λ_P	$I_F = 5mA$	-	700	-	nm
Spectrum Bandwidth		$I_F = 5mA$	-	100	-	nm
Reverse Current	I_R	$V_R = 4V$	-	-	10	uA
Half angle	$\theta_{1/2}$	$I_F = 5mA$	-	±55	-	deg

*3. "A" Rank : 0.7~1.0 "B" Rank : 1.0~1.5 "C" Rank : 1.5~2.3 "D" Rank : 2.3~3.0

Characteristic Diagrams

Fig. 1 $I_F - V_F$

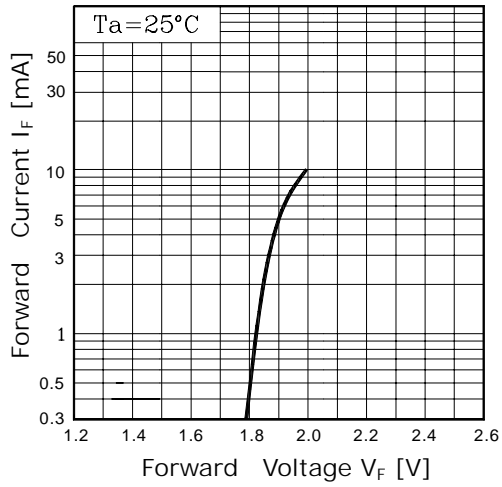


Fig. 2 $I_v - I_F$

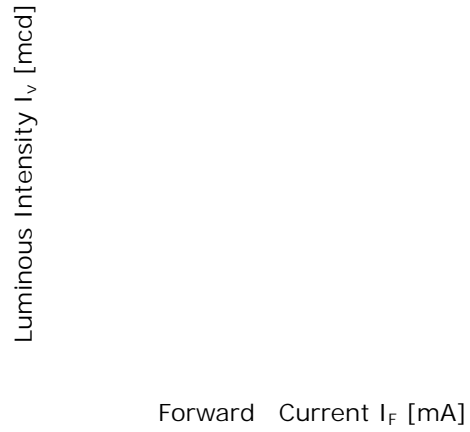


Fig. 3 $I_F - T_a$

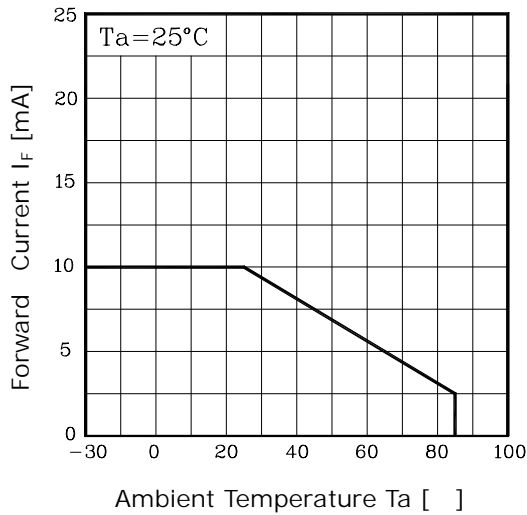


Fig. 4 Spectrum Distribution

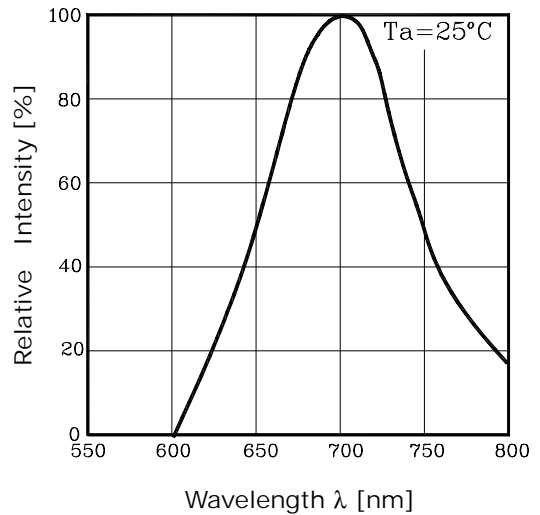


Fig. 5 Radiation Diagram

Relative Luminous Intensity I_v [V]