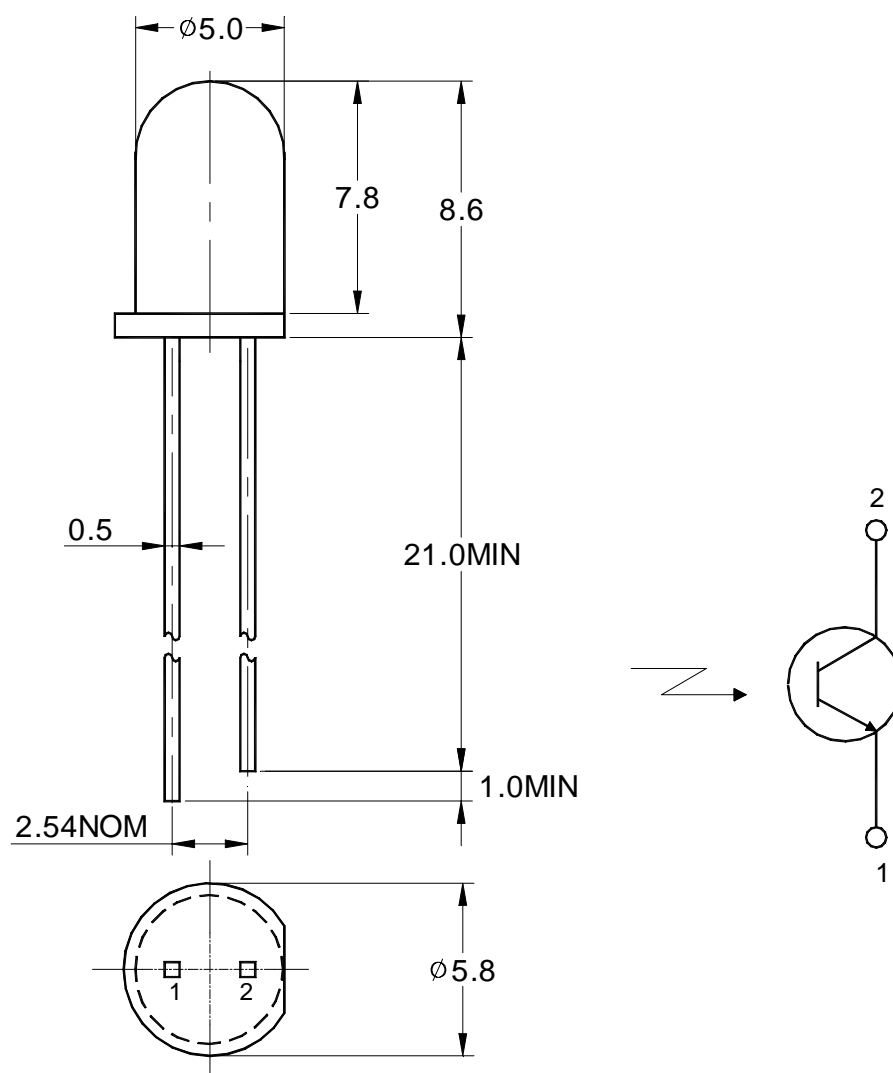


Features

- Lensed for high sensitivity
- $\phi 5\text{mm}$ (T-1³/₄) all plastic mold type
- High reliability and stable characteristics
- Visible light cut-off type

Outline Dimensions**unit : mm****PIN Connections**

1. Emitter
2. Collector

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Collector-Emitter Voltage	V_{CEO}	35	V
Emitter-Collector Voltage	V_{ECO}	6	V
Collector Current	I_C	20	mA
Collector Power Dissipation	P_D	75	mW
Operating Temperature	T_{opr}	-25 85	
Storage Temperature	T_{stg}	-30 100	
*1 Soldering Temperature	T_{sol}	260 for 5 seconds	

*1. 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
Current Dark Current		I _{CEO}	V _{CEO} =10V, E _e =0	-	0.05	0.5	uA
* ³ Light Current		I _{CEL}	V _{CE} =5V, E _e 1mW/cm ²	-	4.5	-	mA
Current-Emitter Saturation Voltage		V _{CE(sat)}	I _C =0.5mA, E _e 1mW/cm ²	-	0.2	-	V
Switching Time	Rise Time	t _r	V _{CC} =10V, I _C =1mA R ₁ =100	-	2.5	-	us
	Fall Time	t _f			3.8		
Spectral Sensitivity			-	700 ~ 1000			nm
Peak Sensitivity Wavelength		λ _p	-	-	880	-	nm
Half angle		θ _{1/2}	I _F = 20mA	-	±20	-	deg

*1. Tolerance = $\pm 30\%$

Characteristic Diagrams

Fig. 1 $I_{CEL} - E_e$

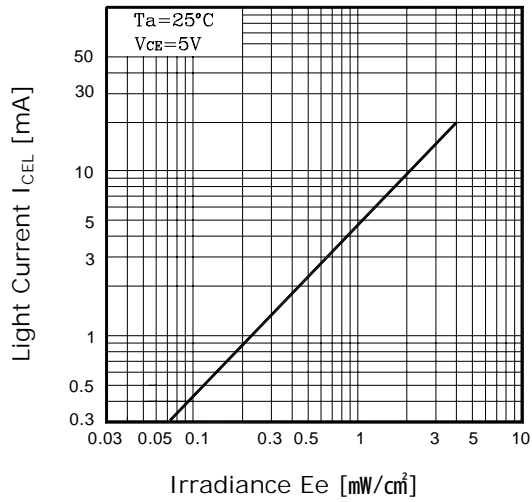


Fig. 2 $I_{CEL} - V_{CE}$

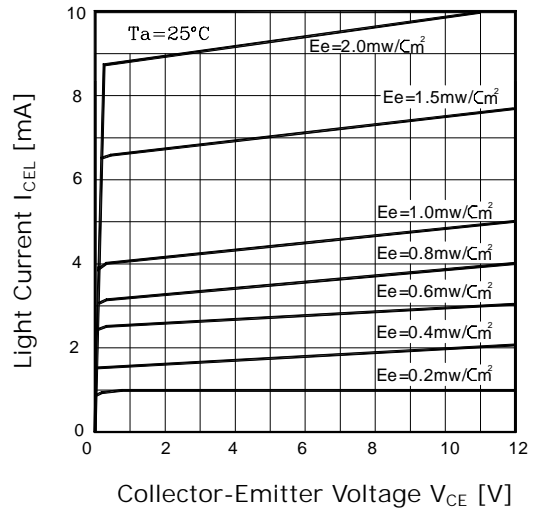


Fig. 3 $P_D - T_a$

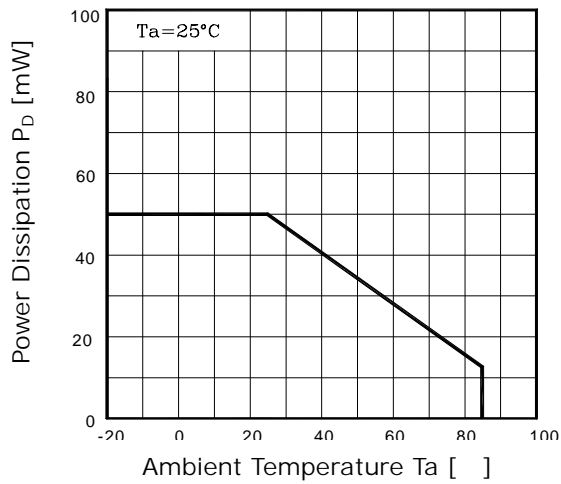


Fig. 4 $I_{CEO} - T_a$

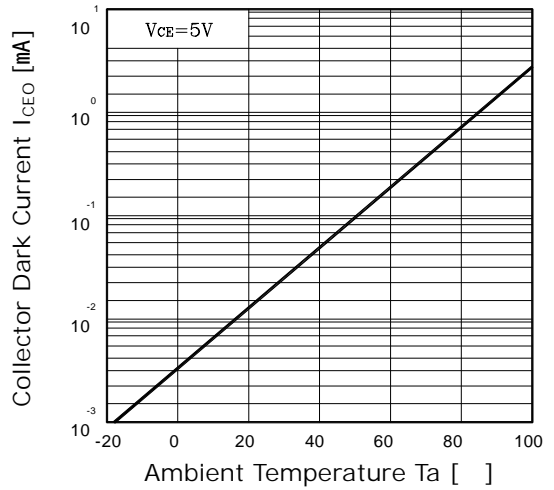


Fig. 5 Spectrum Sensitivity

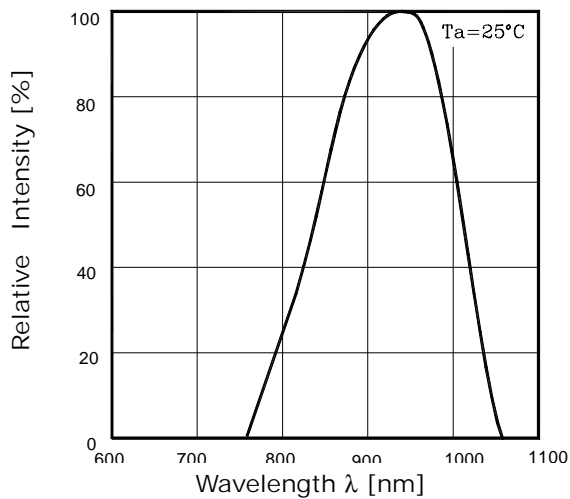


Fig. 5 Sensitivity Diagram

