

**Features**

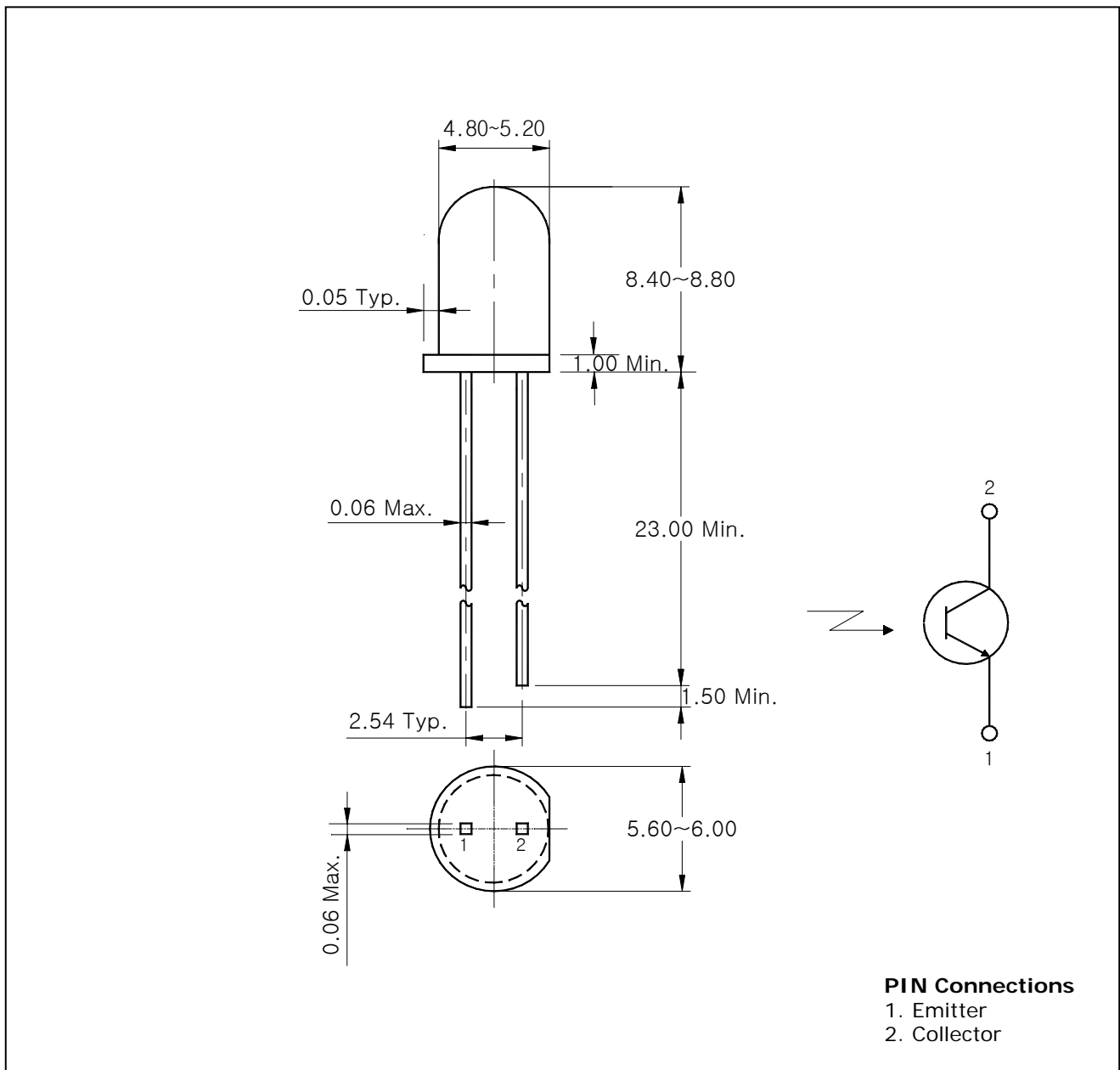
- Lensed for high sensitivity
- $\phi 5\text{mm}$ (T-1<sup>3/4</sup>) all plastic mold type
- High reliability and stable characteristics
- Visible light cut-off type

**Features**

- VCR, Camcorders
- Floppy disk drivers
- Optical detectors

**Outline Dimensions**

unit : mm



## Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	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 range	$T_{opr}$	-25 ~ 85	°C
Storage temperature range	$T_{stg}$	-30 ~ 100	°C
*1 Soldering temperature	$T_{sol}$	260°C for 10 seconds	

\*1. Keep the distance more than 2.0mm from PCB to the bottom of Photo TR package

## Electrical / Optical Characteristics

(T=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector dark current	$I_{CEO}$	$V_{CEO}=10V, E_e=0$	-	0.05	0.5	uA
*2 Light current	$I_{CEL}$	$V_{CE}=5V, E_e \cong 1mW/cm^2$	-	4.5	-	mA
Current-Emitter saturation voltage	$V_{CE(sat)}$	$I_C=0.5mA, E_e \cong 1mW/cm^2$	-	0.2	-	V
Switching time	Rise time	$V_{CC}=10V, I_C=1mA$ $R_1=100\Omega$	-	2.5	-	us
	Fall time			3.8		
Spectral sensitivity	$\lambda$	-	700 ~ 1000			nm
Peak sensitivity wavelength	$\lambda_P$	-	-	880	-	nm
Half angle	$\theta_{1/2}$	$I_F=20mA$	-	$\pm 20$	-	deg

\*2. Tolerance =  $\pm 30\%$

Characteristic Diagrams

Fig. 1  $I_{CEL} - E_e$

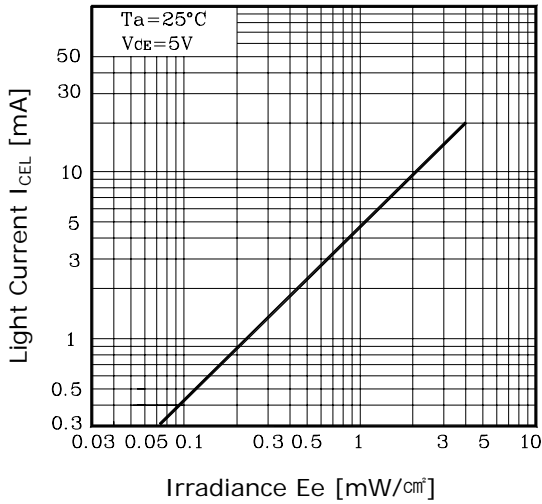


Fig. 2  $I_{CEL} - V_{CE}$

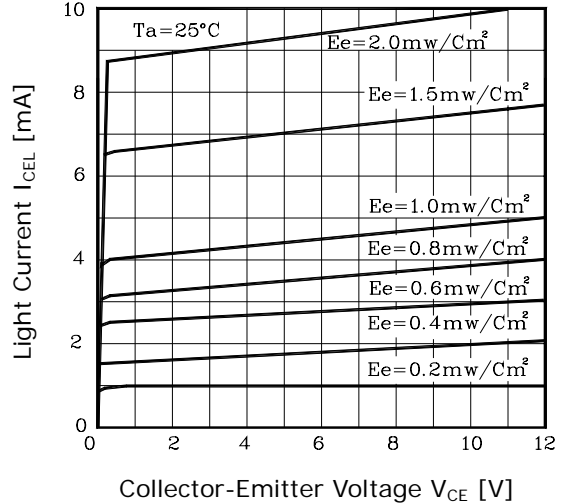


Fig. 3  $P_D - T_a$

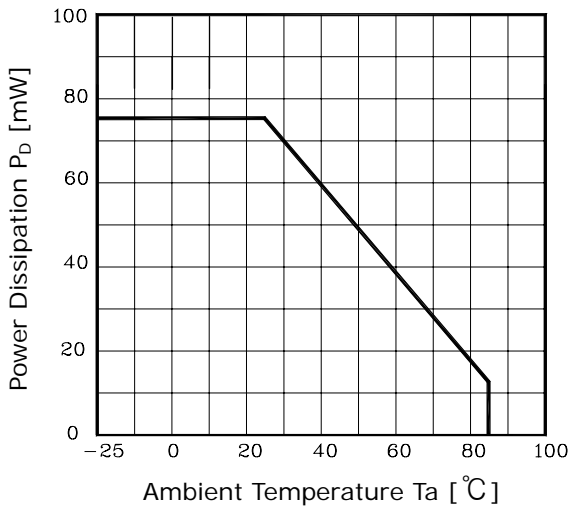


Fig. 4  $I_{CEO} - T_a$

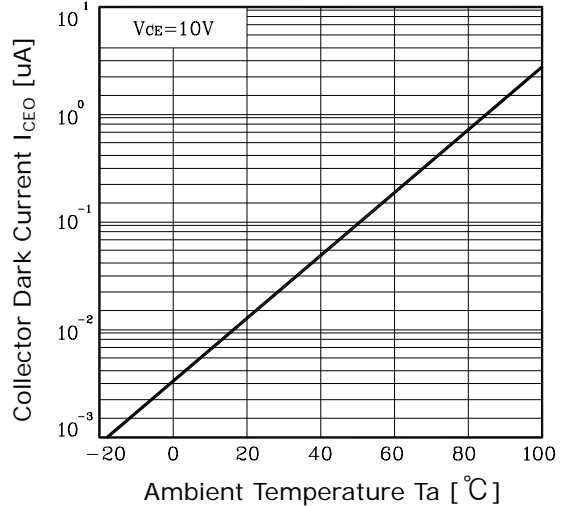


Fig. 5 Spectrum Sensitivity

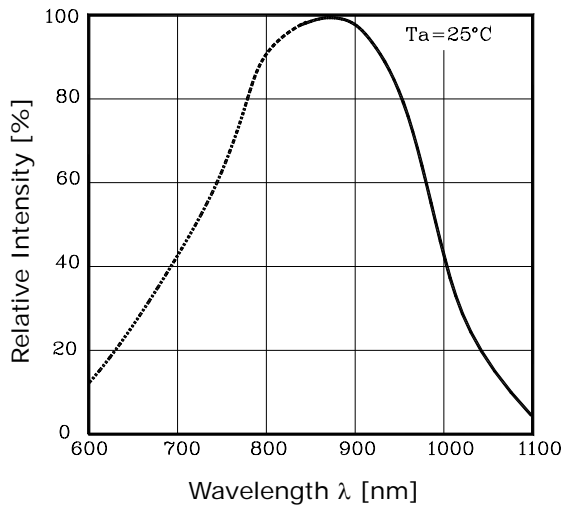
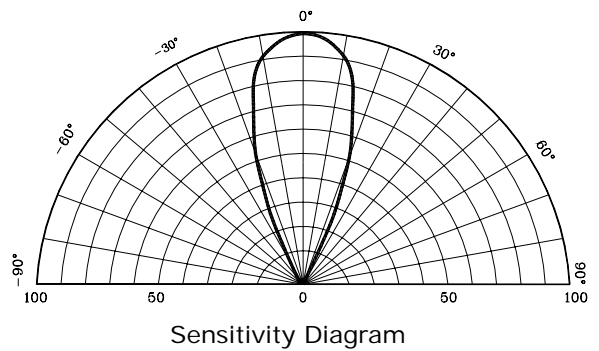


Fig. 6 Sensitivity Diagram



**The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).**

**Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..**

**Specifications mentioned in this publication are subject to change without notice.**