

Features

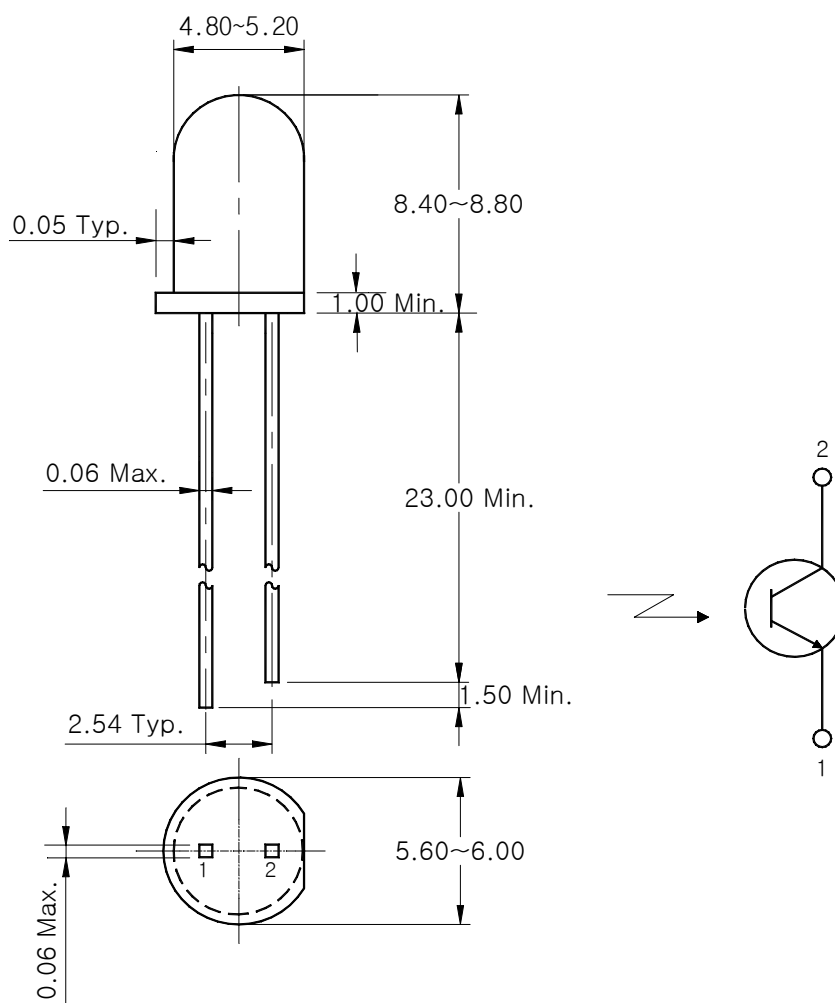
- Lensed for high sensitivity
- $\phi 5\text{mm}$ (T-1³/₄) all plastic mold type
- High reliability and stable characteristics
- Visible light cut-off type

Features

- VCR, Camcorders
- Floppy disk drivers
- Optical detectors

Outline Dimensions

unit : mm



PIN Connections

1. Emitter
2. Collector

Absolute Maximum Ratings

(Ta=25℃)

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	℃
Storage temperature range	T_{stg}	-30 ~ 100	℃
*1Soldering temperature	T_{sol}	260℃ 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℃)

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}	$V_{CE}=5V, E_e \div 1mW/cm^2$	-	4.5	-	mA
Current-Emitter saturation voltage		$V_{CE(sat)}$	$I_C=0.5mA, E_e \div 1mW/cm^2$	-	0.2	-	V
Switching time	Rise time	t_r	$V_{CC}=10V, I_C=1mA$ $R_1=100\Omega$	-	2.5	-	us
	Fall time	t_f			3.8		
Spectral sensitivity		λ	-	700 ~ 1000			nm
Peak sensitivity wavelength		λ_P	-	-	880	-	nm
Half angle		$\theta_{1/2}$	$I_F=20mA$	-	±20	-	deg

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

Characteristic Diagrams

Fig. 1 $I_{CEL} - E_e$

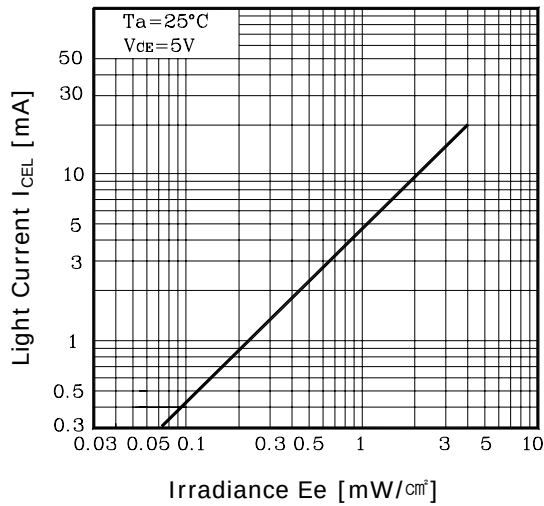


Fig. 2 $I_{CEL} - V_{CE}$

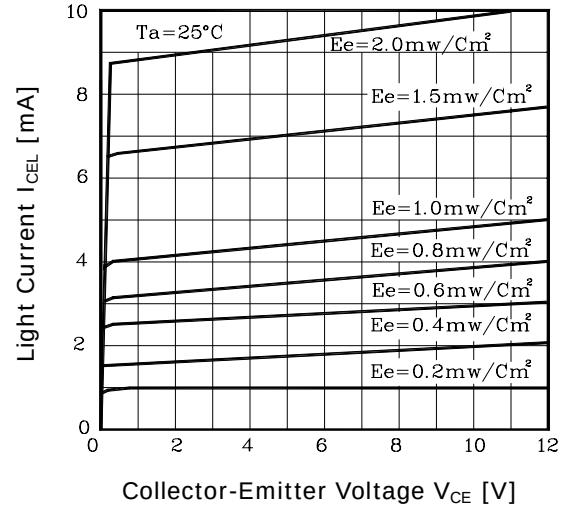


Fig. 3 $P_D - T_a$

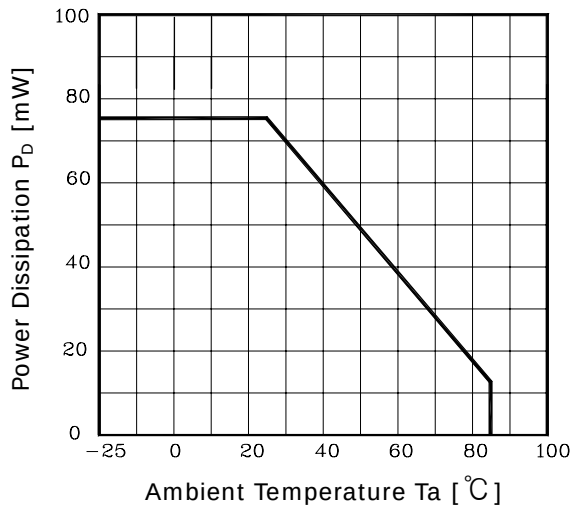


Fig. 4 $I_{CEO} - T_a$

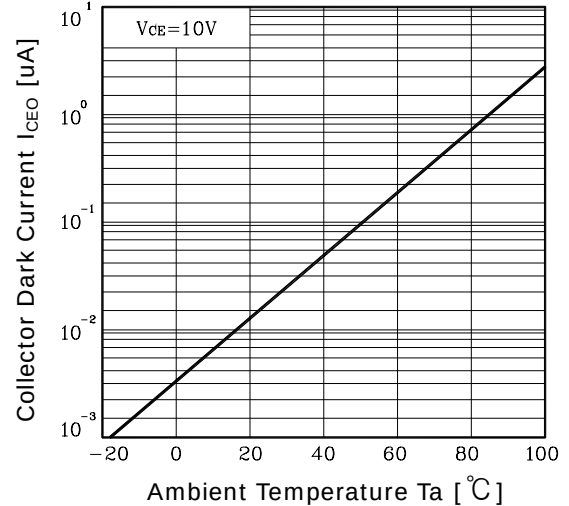


Fig. 5 Spectrum Sensitivity

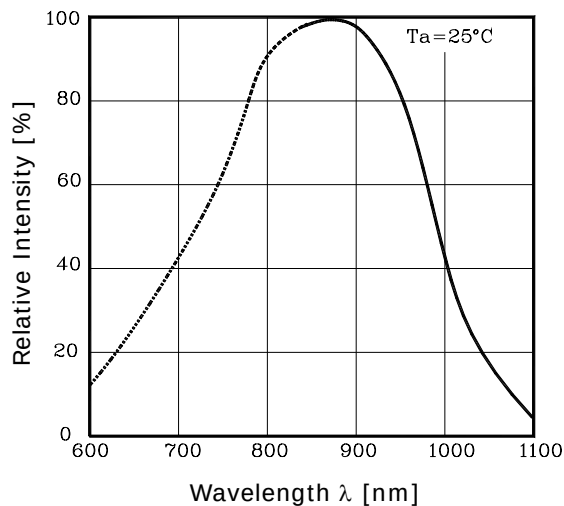
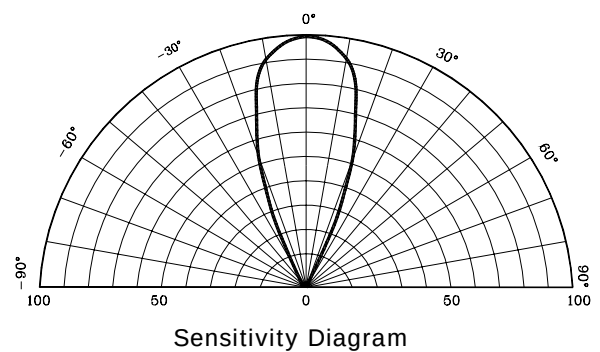


Fig. 6 Sensitivity Diagram



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