

**Features**

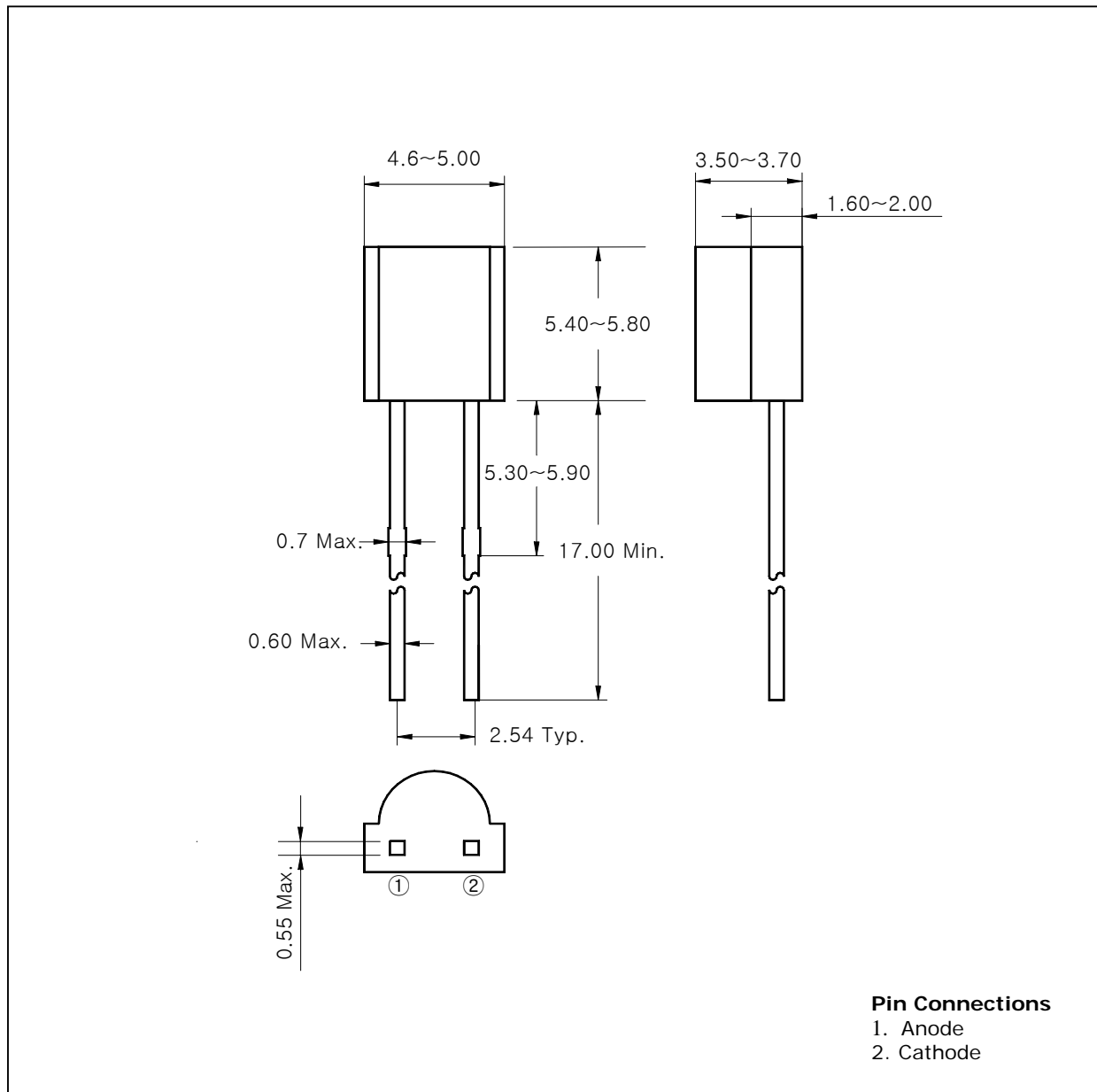
- Peak sensitivity wavelength matching with infrared LED( $\lambda_p=940\text{nm}$ )
- 4.8mm × 5.6mm side view package
- Black colored visible light cut-off lens

**Application**

- Various kinds of remote control systems

**Outline Dimensions**

unit : mm



**Pin Connections**

1. Anode
2. Cathode

## Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Reverse voltage	$V_R$	70	V
Power dissipation	$P_D$	170	mW
Operating temperature range	$T_{opr}$	-20 ~ 70	°C
Storage temperature range	$T_{stg}$	-25 ~ 85	°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 LED package

## Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Short circuit current	$I_{SC}$	$V_R=5V$ , *2 $E_e=6mW/cm^2$	-	45	-	uA
Dark current	$I_D$	$V_R=10V$ , $E_e=0$	-	-	50	nA
Capacitance	$C_T$	$V_R=10V$ , $f=1MHz$	-	10	-	pF
Photosensitivity spectral range	$\lambda$	-	430 ~ 1,050			nm
Peak sensitivity wavelength	$\lambda_P$	-	-	940	-	nm
Half angle	$\theta^{1/2}$	-	-	±55	-	deg

\*2.  $E_e$  : Irradiance by infrared LED light source ( $\lambda_P=940nm$ )

Characteristic Diagrams

Fig. 1  $I_{SC} - E_e$

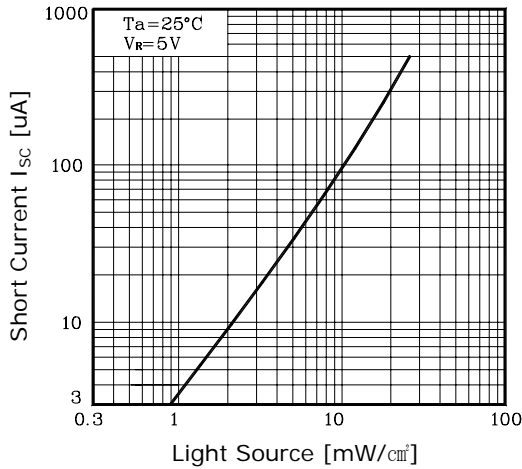


Fig. 2  $I_D - T_a$

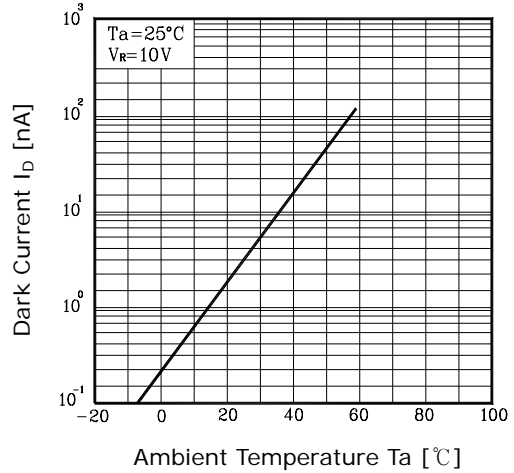


Fig. 3  $C_T - V_R$

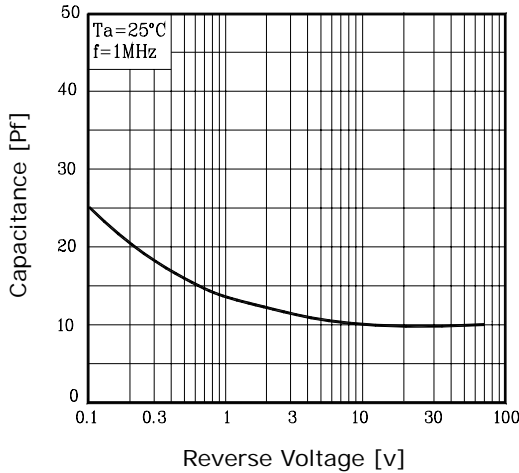
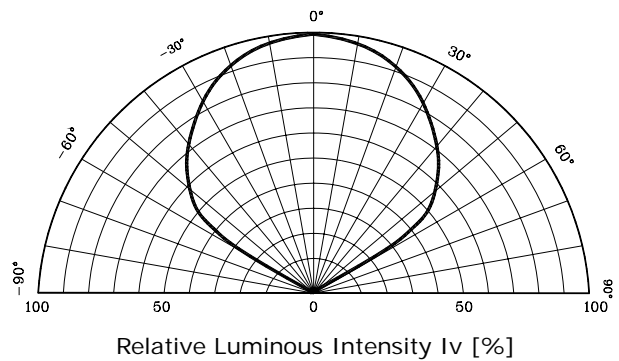
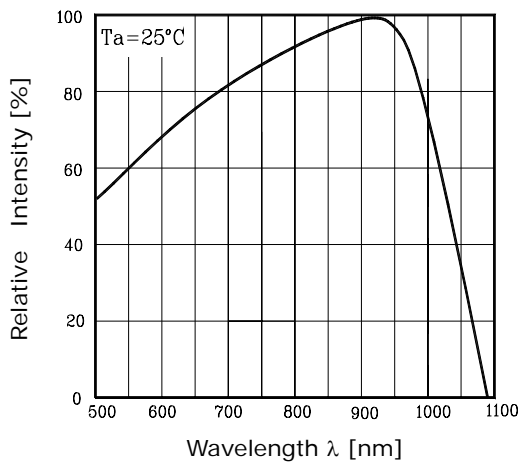
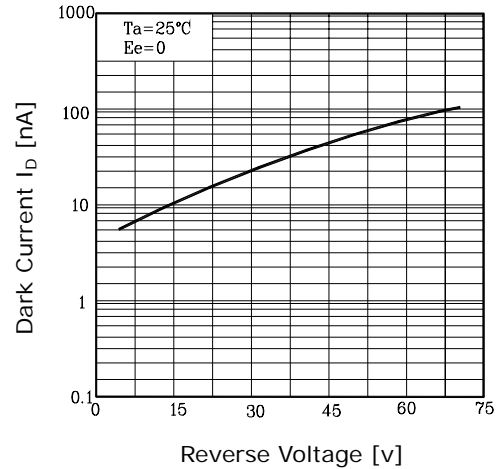


Fig. 4  $I_D - V_R$



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