

Features

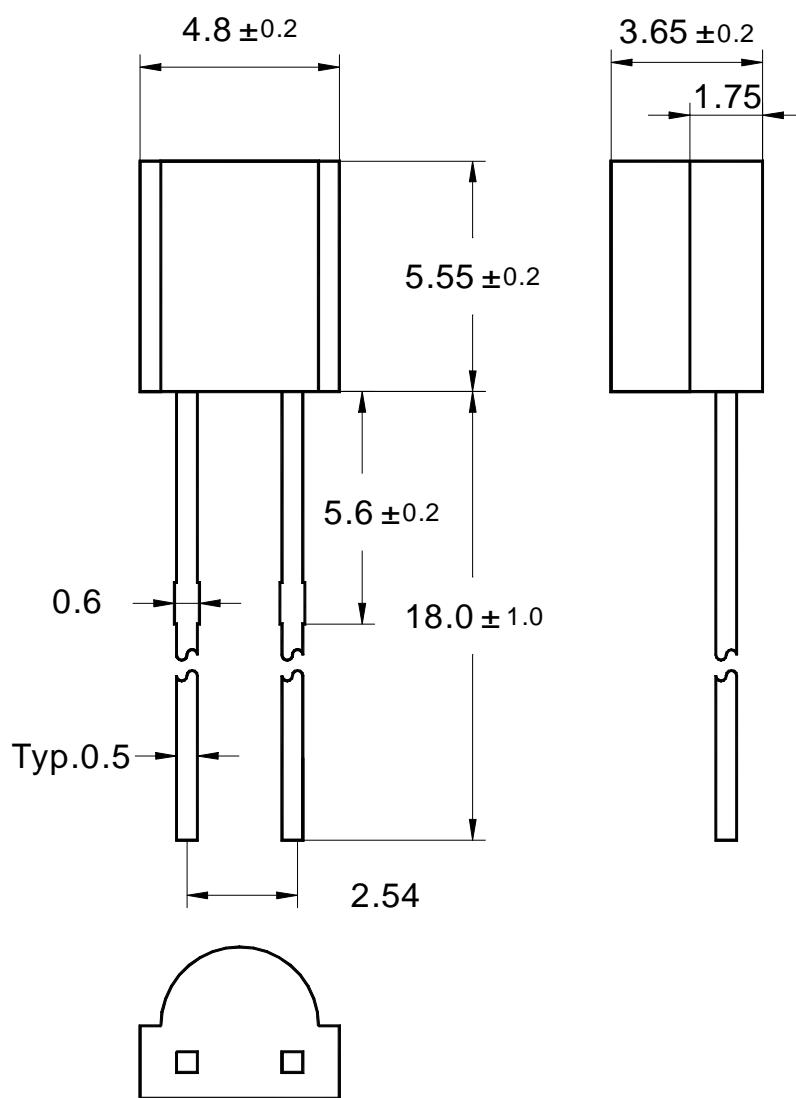
- Peak sensitivity wavelength matching with infrared LED ($\lambda_p=950\text{nm}$)
- 4.8mm × 5.5mm side view package
- Black colored visible light cut-off lens

Application

- Infrared remote controllers for TVs, VCRs, Audio equipment etc

Outline Dimensions

unit : mm



PIN Connections
1. Anode
2. Cathode

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Reverse Voltage	V _R	40	V
Power Dissipation	P _D	170	mW
Operating Temperature	T _{opr}	-20 ~ 70	
Storage Temperature	T _{stg}	-25 ~ 85	
* ¹ Soldering Temperature	T _{sol}	260 for 5 seconds	

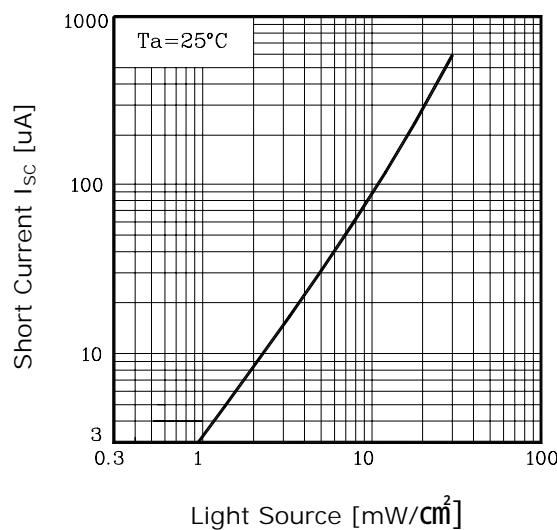
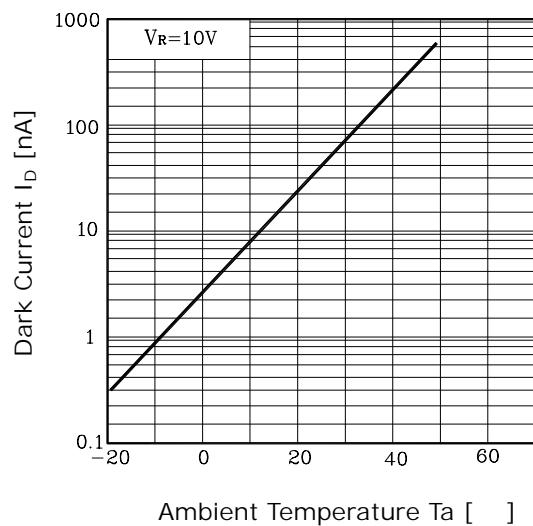
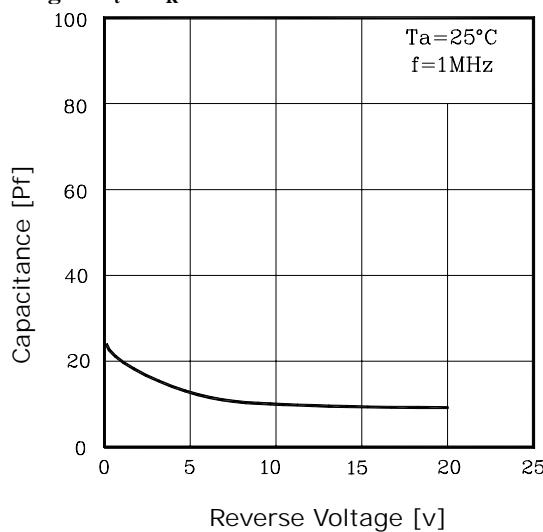
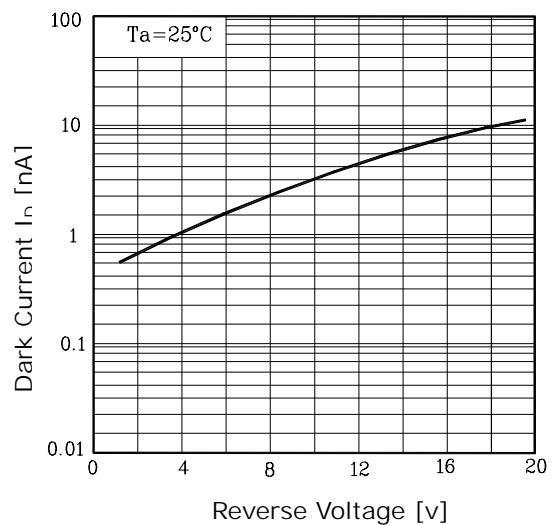
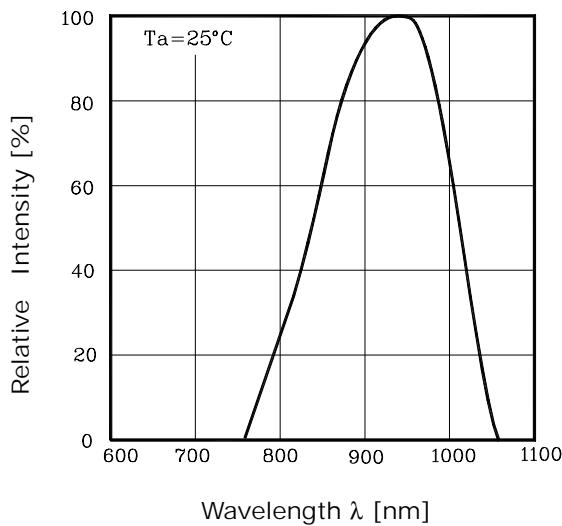
*1.Keep the distance more than 2.0mm from PCB to the bottom of Photo Diode package

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
* ¹ Short Circuit Current	I _{SC}	E _e =6mW/cm ²	-	40	-	uA
Dark Current	I _D	V _R =10V	-	-	50	nA
Capacitance	C _t	V _R =10V, f=1MHz	-	10	-	pF
Spectral Sensitivity		-		840 ~ 1,050		nm
Peak Sensitivity Wavelength	λ _p	-	-	940	-	nm
Half angle	θ ^{1/2}	-	-	±55	-	deg

*1. E_e : Irradiance by infrared LED light source(λ_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 **Fig.5 Spectrum Sensitivity****Fig. 5-1 Radiation Diagram**