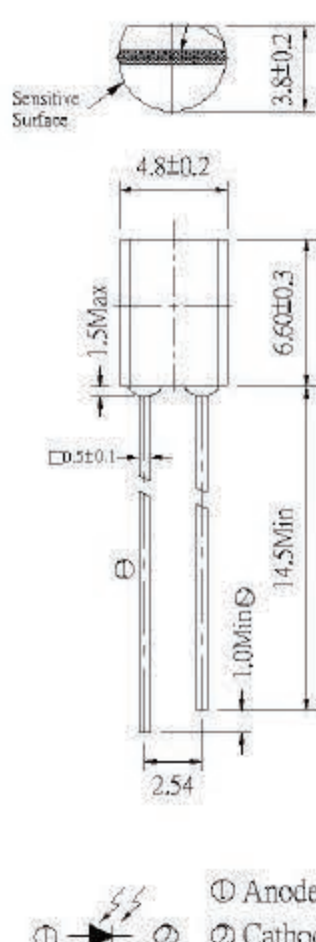




Package Dimensions



Notes: 1.All dimensions are in millimeters
2.Tolerances unless dimensions ±0.25mm

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units
Reverse Voltage	V_R	32	V
Power Dissipation	P_d	150	mW
Lead Soldering Temperature	T_{sol}	260	°C
Operating Temperature	T_{opr}	-25 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C

Notes: *1:Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Rang of Spectral Bandwidth	$\lambda_{0.5}$	-----	840	---	1100	nm
Wavelength of Peak Sensitivity	λ_p	-----	---	940	---	nm
Open-Circuit Voltage	V_{oc}	$E_e=5m W/cm^2$ $\lambda_p=940nm$	---	0.35	---	V
Short-Circuit Current	I_{sc}	$E_e=1m W/cm^2$ $\lambda_p=940nm$	---	18	---	μA
Reverse Light Current	I_L	$E_e=1m W/cm^2$ $\lambda_p=940nm$ $V_R=5V$	10.2	18	---	
Dark Current	I_d	$E_e=0m W/cm^2$ $V_R=10V$	---	5	30	nA
Reverse Breakdown	BV_R	$E_e=0m W/cm^2$ $I_R=100 \mu A$	32	170	---	V
Total Capacitance	C_t	$E_e=0m W/cm^2$ $V_R=3V$ $f=1MHZ$	---	25	---	pF
Rise/Fall Time	t_r/t_f	$V_R=10V$ $R_L=1K\Omega$	---	50/50	---	nS

Typical Electro-Optical Characteristics Curves

Fig.1 Power Dissipation vs. Ambient Temperature

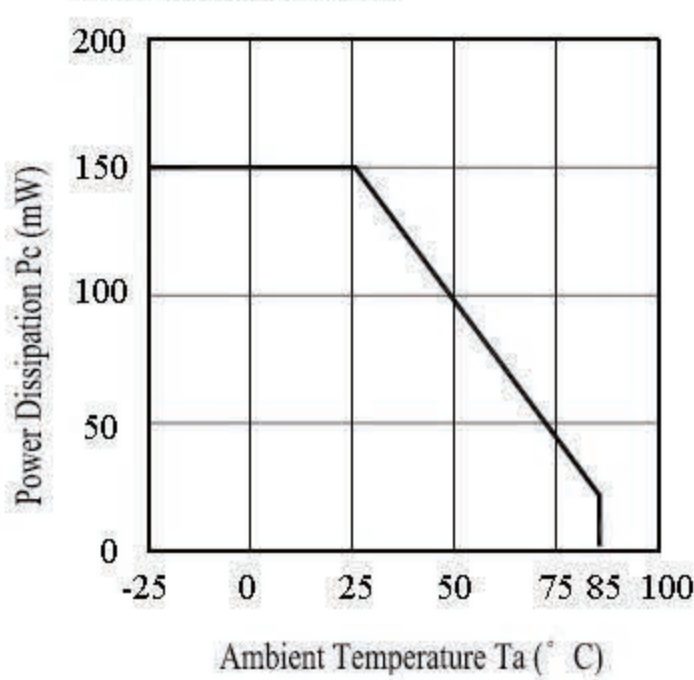


Fig.2 Spectral Sensitivity

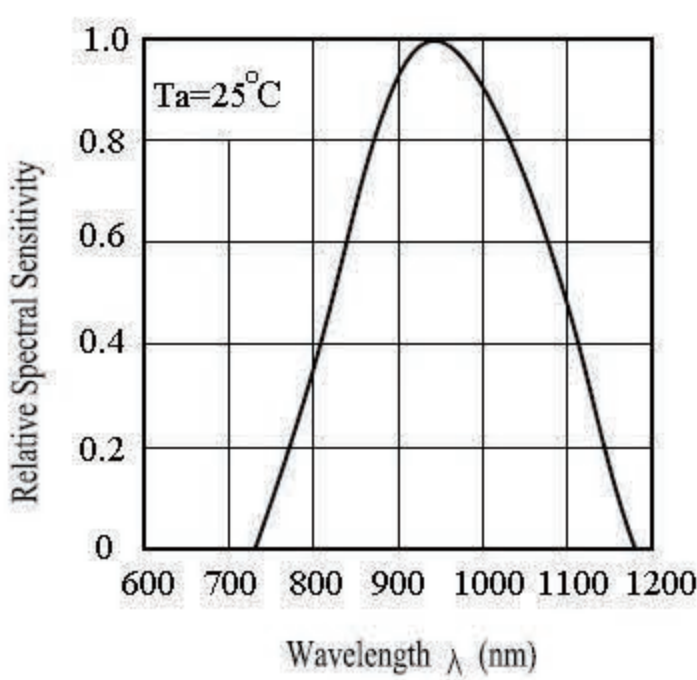


Fig.3 Dark Current vs. Ambient Temperature

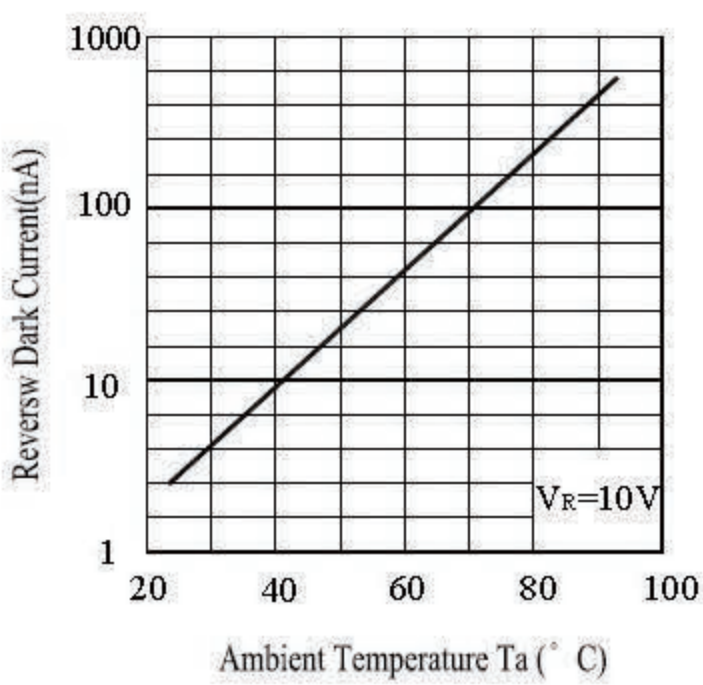
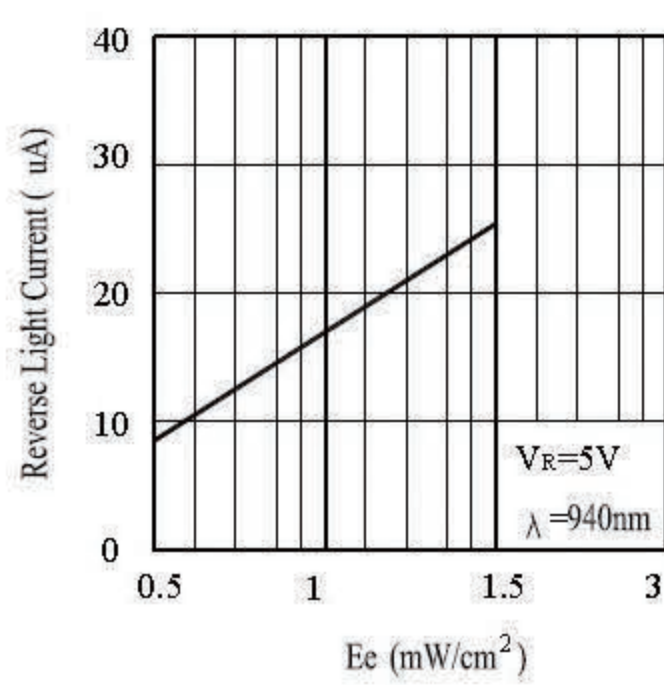


Fig. 4 Reverse Light Current vs. E_e



Reliability Test Item And Condition

The reliability of products shall be satisfied with items listed below.

Confidence level : 90%

LTPD : 10%

NO.	Item	Test Conditions	Test Hours/ Cycles	Sample Sizes	Failure Judgement Criteria	Ac/R e	
1	Solder heat	TEMP. : 260°C±5°C	10secs	22pcs	Specification Limit	0/1	
2	Temperature Cycle	H : +100°C ↓ 15mins ↓ 5mins L : -40°C 15mins	300Cycles	22pcs		$I_L \leq L \times 0.8$	0/1
3	Thermal Shock	H : +100°C ↓ 5mins ↓ 10secs L : -10°C 5mins	300Cycles	22pcs			0/1
4	High Temperature Storage	TEMP. : +100°C	1000hrs	22pcs			0/1
5	Low Temperature Storage	TEMP. : -40°C	1000hrs	22pcs			0/1
6	DC Operating Life	$V_R=5V$	1000hrs	22pcs			0/1
7	High Temperature/ High Humidity	85°C / 85% R.H	1000hrs	22pcs			0/1