

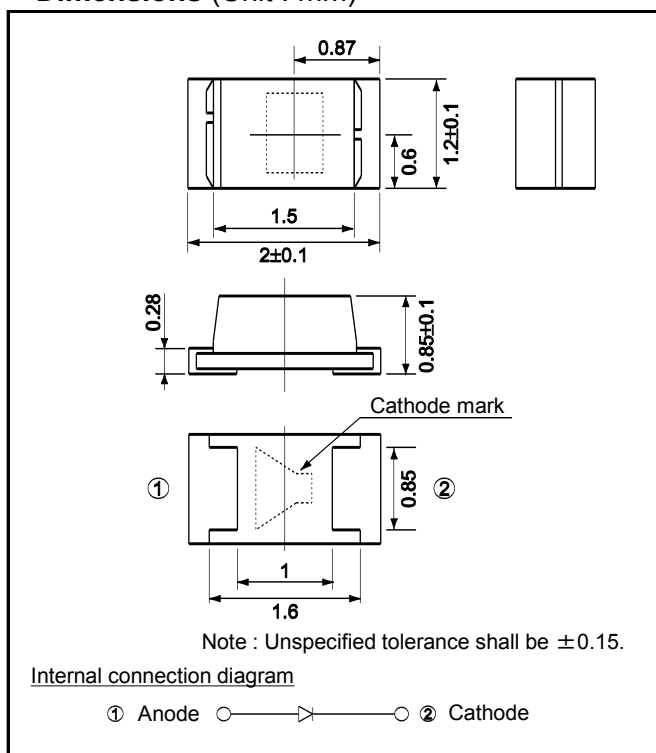
## ●Applications

- Household applications
- OAs, FAs
- Other general-purpose applications

## ●Features

- 1) Dimensions 2.0×1.2×0.85mm (L×W×H)
- 2) Visible light-blocking resin (<750nm)
- 3) Supports lead-free solders
- 4) RoHS directive

## ●Dimensions (Unit : mm)



## ●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Value	Unit
Reverse voltage	$V_R$	60	V
Power dissipation	$P_D$	30	mW
Operating temperature	$T_{opr}$	-40 to +85	°C
Storage temperature	$T_{stg}$	-40 to +100	°C
Soldering temperature	$T_{sd}$	260	°C *1

\*1 Reflow solder profile

**●Electrical specification (Ta = 25°C)**

Parameter		Symbol	Conditions	Values			Unit
				Min.	Typ.	Max.	
Forward voltage		$V_F$	$I_F = 50\text{mA}$	-	1.1	-	V
Reverse dark current		$I_d$	$V_R = 10\text{V}$	-	0.5	6	nA
Reverse light current		$I_{ra}$	$E_e = 1\text{mW/cm}^2$ $V_R = 5\text{V}, \lambda = 940\text{nm}$	6	-	10	$\mu\text{A}$
Reverse breakdown voltage		$V_{BR}$	$E_e = 0\text{mW/cm}^2$ $I_R = 100\mu\text{A}$	60	-	-	V
Capacitance		$C_j$	$E_e = 0\text{mW/cm}^2$ $V_R = 5\text{V}, f = 1\text{MHz}$	-	1.5	-	pF
Peak emission wavelength		$\lambda_p$		-	940	-	nm
Spectrum half width		$\lambda_{0.5}$		800 to 1050			nm
Half angle		$\theta_{1/2}$		-	$\pm 60$	-	deg
Response time	Rise time	$t_r$	$V_R = 10\text{V}, R_L = 1\text{K}\Omega$ $\lambda = 850\text{nm}$	-	100	-	ns
	Fall time	$t_f$		-	100	-	

●Electrical and optical characteristic curves

Fig.1 Illuminance vs. Relative Photocurrent

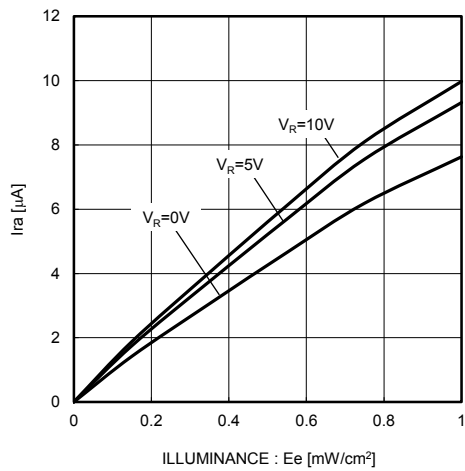


Fig.2 Reverse Voltage vs. Photocurrent

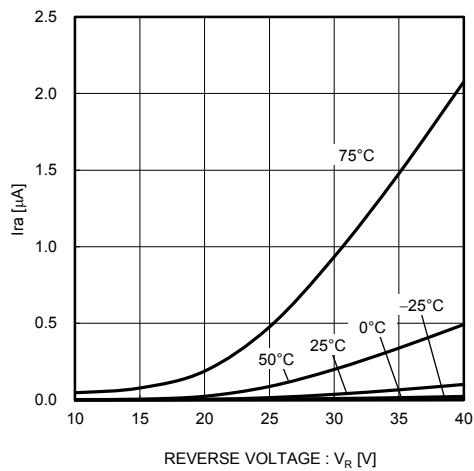


Fig.3 Forward Voltage vs. Forward Current

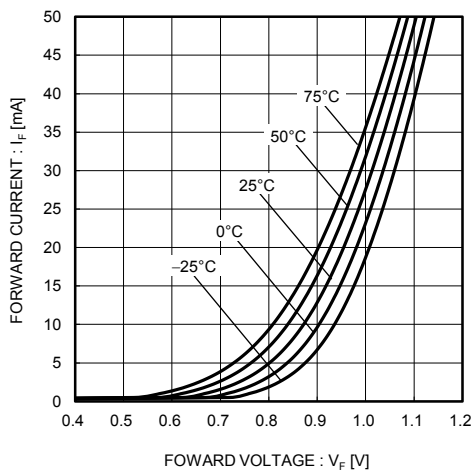


Fig.4 Spectral Sensitivity

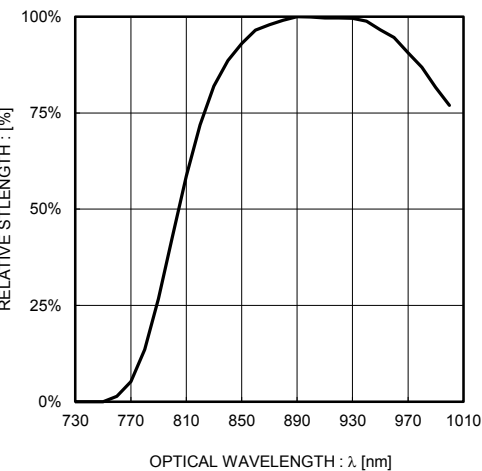
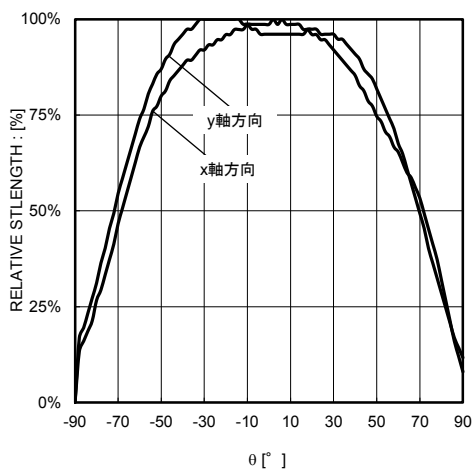


Fig.5 Directivity



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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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