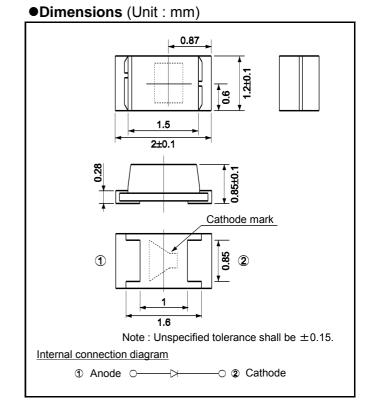
### Applications

- 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

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

Parameter	Symbol	Value	Unit	
Reverse voltage	V <sub>R</sub>	60	V	
Power dissipation	P <sub>D</sub>	30	mW	
Operating temperature	T <sub>opr</sub>	-40 to +85	°C	
Storage temperature	T <sub>stg</sub>	-40 to +100	°C	
Soldering temperature	$T_{sd}$	260	°C *1	

\*1 Reflow solder profile

#### •Electrical specification (Ta = 25°C)

Parameter		Symbol	Conditions	Values			Lincit
				Min.	Тур.	Max.	Unit
Forward voltage		V <sub>F</sub>	I <sub>F</sub> =50mA	-	1.1	-	V
Reverse dark current		ا <sub>ط</sub>	V <sub>R</sub> =10V	-	0.5	6	nA
Reverse light current		I <sub>ra</sub>	E <sub>e</sub> =1mW/cm <sup>2</sup>	6	-	10	μA
			V <sub>R</sub> =5V, λ=940nm				
Reverse breakdown voltage		V <sub>BR</sub>	E <sub>e</sub> =0mW/cm <sup>2</sup>	60	-	-	V
			I <sub>R</sub> =100μA	00			
Capacitance		Cj	E <sub>e</sub> =0mW/cm <sup>2</sup>	-	1.5	-	pF
			V <sub>R</sub> =5V, f=1MHz				
Peak emission wavelength		λ <sub>p</sub>		-	940	-	nm
Spectrum half width		λ <sub>0.5</sub>		800 to 1050		nm	
Half angle		θ 1/2		-	±60	-	deg
Response time	Rise time	tr	V <sub>R</sub> =10V, R <sub>L</sub> =1KΩ λ=850nm	-	100	-	ns
	Fall time	tf		-	100	-	

#### •Electrical and optical characteristic curves



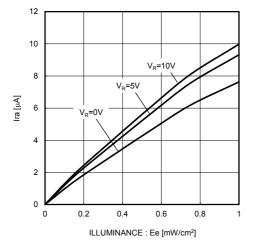
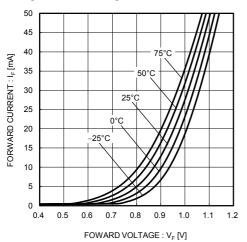
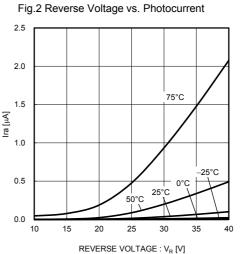


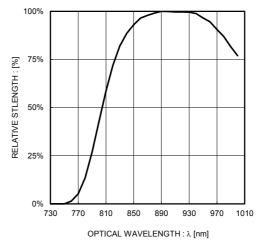
Fig.3 Forward Voltage vs. Forward Current



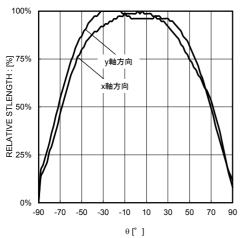












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