

# Round Phototransistor 5mm



## Features:

- Standard 3mm Package
- High Sensitivity

## Maximum Ratings at Ta=25°C

Power Dissipation	: 75mW
Collector-emitter voltage	: 30V
Emitter-collector voltage	: 5V
Operating Temperature Range	: -25°C to +85°C
Storage Temperature Range	: -40°C to +100°C
Soldering Temperature Dip Soldering	: 260°C for 5 secs
Soldering Temperature Hand Soldering	: 350°C for 3 secs

## Electrical & Optical Characteristics at Ta=25°C

Chip		Collector-emitter breakdown voltage(V)	Emitter-collector breakdown voltage(V)	Collector-emitter saturation voltage (V)	Rise Time $\mu$ S	Fall Time $\mu$ S	Collector Dark Current (nA)	On State Collector Current (mA) min. typ.	Peak Sensitivity Wavelength
Material	Lens Colour	(Conditions: Ee = 0mW/cm <sup>2</sup> IC = 100 $\mu$ A)	(Conditions: Ee = 0mW/cm <sup>2</sup> IE = 100 $\mu$ A)	(Conditions: Ee = 1mW/cm <sup>2</sup> IC = 2mA)	(Conditions: Vce = 5V, IC = 1mA, RL = 1000)		(Conditions: Ee = 0mW/cm <sup>2</sup> Vce = 20V)	(Conditions: Ee = 1mW/cm <sup>2</sup> Vce = 5V)	
Silicon	Black	30	5	0.3	15		100	0.6 2	860

## Typical Electrical / Optical Characteristics Curves:

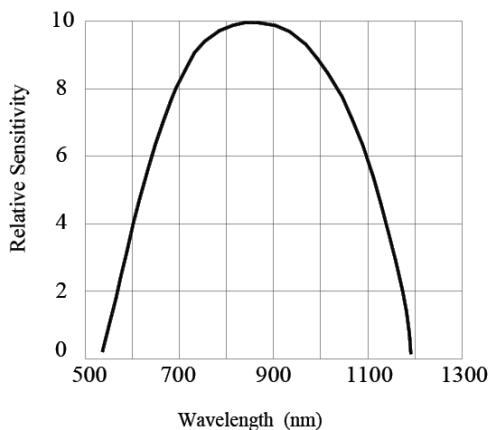


Fig. 1 Spectral Sensitivity VS. Peak Wavelength

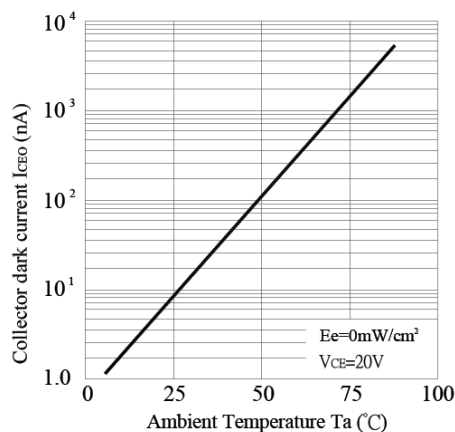
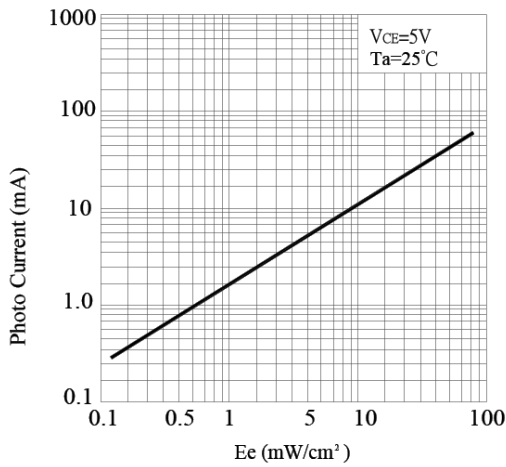


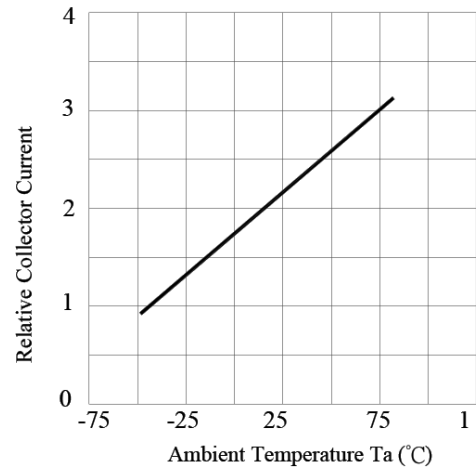
Fig. 2 Collector Dark Current VS. Ambient Temperature



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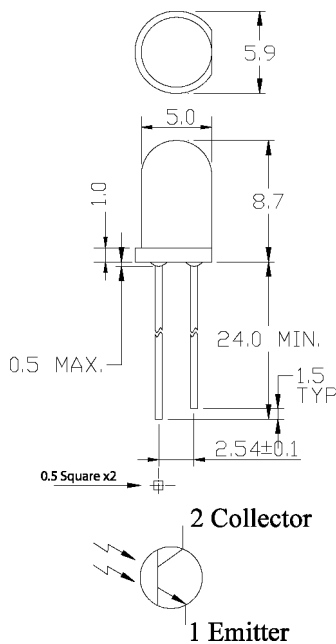


**Fig. 3 Photo Current VS. Irradiance**



**Fig. 4 Collector Current VS. Ambient Temperature**

## OFT-53 Series



Dimensions : Millimetres

### Part Number Table

Description	Part Number
5mm Round Phototransistor	OFT-5301

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