

3mm Round Phototransistor multicomp^{PRO}



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 μ S	Fall Time μ S	Collector Dark Current (nA)	On State Collector Current (mA) min. typ.	Peak Sensitivity Wave-length
Material	Lens Colour	(Conditions: Ee=0mW/cm ² IC=100 μ A)	(Conditions: Ee=0mW/cm ² IE=100 μ A)	(Conditions: Ee=1mW/cm ² IC=2mA)	(Conditions: Vce=5V, Ic=1mA, RL=1000)		(Conditions: Ee=0mW/cm ² Vce=20V)	(Conditions: Ee=1mW/cm ² Vce=5V)	
Silicon	Black	30	5	0.3	15	15	100	0.6 2.0	860

Typical Electrical / Optical Characteristics Curves:

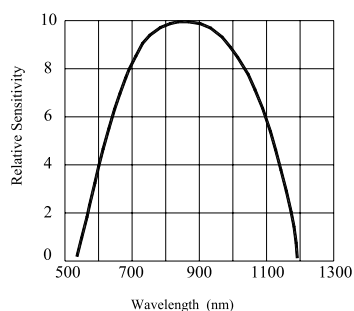


Fig. 1 Spectral Sensitivity VS. Peak Wavelength

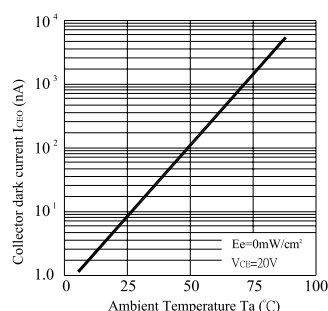


Fig. 2 Collector Dark Current VS. Ambient Temperature

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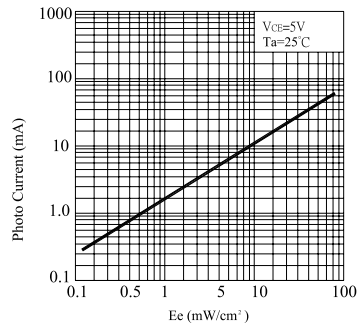


Fig. 3 Photo Current VS. Irradiance

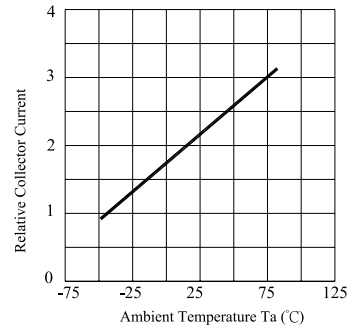
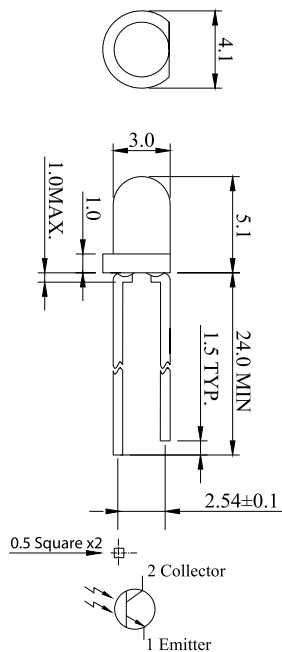


Fig. 4 Collector Current VS. Ambient Temperature

Diagram:



Dimensions : Millimetres
Tolerance of $\pm 0.25\text{mm}$

Part Number Table

Description	Part Number
3mm Round Phototransistor	OFT-3301

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