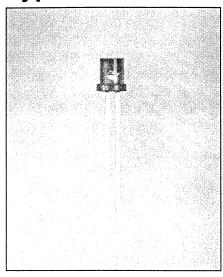
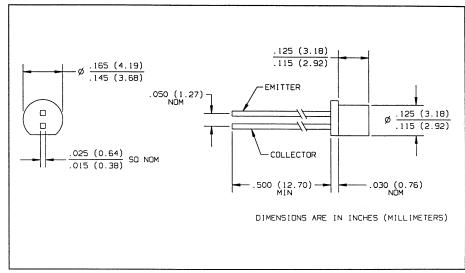


NPN Silicon Phototransistor Type OP505W





Features

- · Wide receiving angle
- T-1 package style
- Small package size for space limited applications

Description

The OP505W consists of an NPN silicon phototransistor molded in a blue tinted plastic package. The wide receiving angle provides relatively even reception over a large area. This device is 100% production tested using infrared light for close correlation with Optek's GaAs and GaAlAs emitters.

Absolute Maximum Ratings (T_A = 25° C unless otherwise noted)

Collector-Emitter Voltage
Emitter-Collector Voltage
Storage and Operating Temperature Range
Lead Soldering Temperature [1/16 inch (1.6 mm) from case for 5 sec. with soldering
iron]
Power Dissipation
Notes:

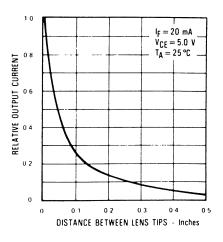
- (1) RMA flux is recommended. Duration can be extended to 10 sec. max. when flow soldering. Max. 20 grams force may be applied to leads when soldering. (2) Derate linearly 1.33 mW/° C above 25° C.
- (3) Light source is an unfiltered GaAs LED with a peak emission wavelength of 935 nm and a radiometric intensity level which varies less than 10% over the entire surface of the phototransistor being tested.
- (4) To calculate typical collector dark current in μA , use the formula $I_{CED} = 10^{(0.04 \, T_A 3.4)}$ where T_A is ambient temperature in ° C.

Typical Performance Curves

Typical Spectral Response

100 Relative Response - % 60 20 600 700 800 900 Wavelength - nm

Coupling Characteristics of OP165W and OP505W

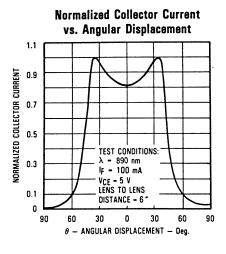


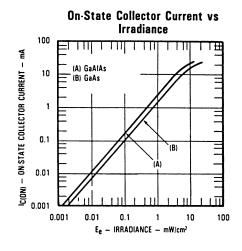
Types OP505W

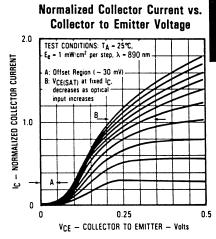
Electrical Characteristics (T_A = 25° C unless otherwise noted)

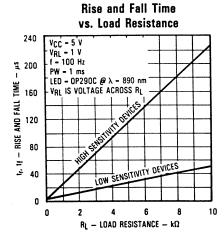
SYMBOL	PARAMETERS	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Ic(on)	On-State Collector Current	100			μА	$V_{CE} = 5 \text{ V, } E_e = 0.75 \text{ mW/cm}^{2(3)}$
ICEO	Collector Dark Current			100	nA	V _{CE} = 10.0 V, E _e = 0
V _(BR) CEO	Collector-Emitter Breakdown Voltage	30			ı V	I _C = 100 μA
V _{(BR)ECO}	Emitter-Collector Breakdown Voltage	5.0			٧	I _E = 100 μA
VCE(SAT)	Collector-Emitter Saturation Voltage			0.40	V	$I_C = 50 \mu A, E_e = 0.75 \text{ mW/cm}^{2(3)}$

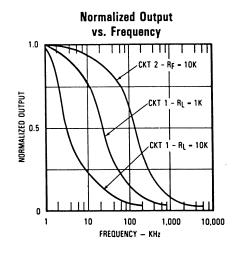
Typical Performance Curves

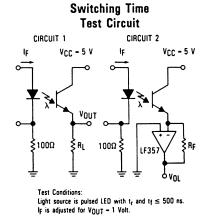












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