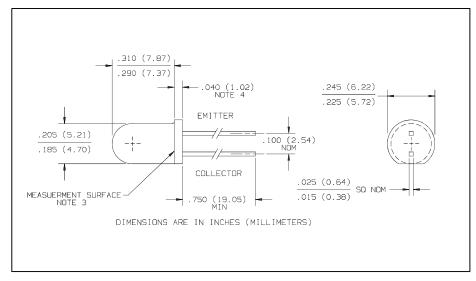


NPN Plastic Silicon Phototransistors Type OP599 Series





Features

- Variety of sensitivity ranges
- T-1 3/4 package style

Description

The OP599 series phototransistor consists of an NPN silicon phototransistor mounted in a dark blue plastic injection molded shell package. The narrow receiving angle provides excellent on-axis coupling. The sensors are 100% production tested for close correlation with Optek GaAlAs emitters.

Optek's packaging process provides excellent optical and mechanical axis alignment. The shell also provides excellent optical lens surface, control of chip placement, and consistency of the outside package dimensions.

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

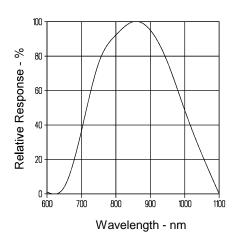
Collector-Emitter Voltage	0 V
Emitter-Collector Voltage	0 V
Continuous Collector Current	mΑ
Storage and Operating Temperature Range	o C
Lead Soldering Temperature (1/16 inch [1.6 mm] from case for 5 sec. with	
soldering iron)	C ⁽¹⁾
Power Dissipation	٧ ⁽²⁾

Notes:

- 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) V_{CE} = 5 V. Light source is an unfiltered GaAlAs emitting diode operating at peak emission wavelength of 890 nm and E_{e(APT)} of .25 mW/cm².
- (4) This dimension is held to within ± 0.005 " on the flange edge and may vary up to ± 0.020 " in the area of the leads.

Typical Performance Curves

Typical Spectral Response



Optek Technology, Inc.

1215 W. Crosby Road

Carrollton, Texas 75006

(972) 323-2200

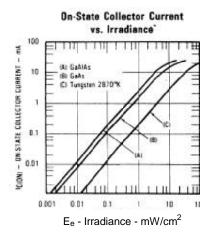
Fax (972)323-2396

Types OP599

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

SYMBOL	PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITIONS
Ic(on)	On-State Collector Current	OP599D OP599C OP599B OP599A	0.20 0.40 1.20 2.35		1.95 3.85	mA mA mA mA	See Note (3) See Note (3) See Note (3) See Note (3)
ICEO	Collector Dark Current				100	nA	V _{CE} = 10.0 V, E _e = 0
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage		30			V	I _C = 100 μA
V _{(BR)ECO}	Emitter-Collector Breakdown Voltage		5.0			V	I _E = 100 μA
V _{CE(SAT)}	Collector-Emitter Saturation Voltage				0.40	V	$I_C = 100 \mu A$ $E_e = 0.25 \text{ mW/cm}^{2(3)}$

Typical Performance Curves



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