

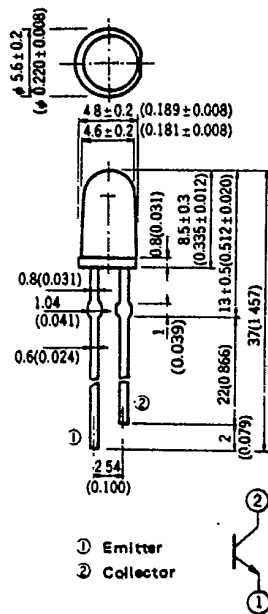
T-41-61

PHOTO TRANSISTOR

PH105

PHOTO DETECTOR

PACKAGE DIMENSIONS
in millimeters (inches)



The PH105 is a photo transistor in a plastic molded package, and matched spectrally and mechanically with SE303 IR Emitter.

ABSOLUTE MAXIMUM RATINGS (T_a = 25 °C)

Collector to Emitter Voltage	V _{CEO}	30	V
Collector Current	I _C	50	mA
Power Dissipation	P _C	150	mW
Junction Temperature	T _j	100	°C
Storage Temperature	T _{stg}	-40 to +100	°C

ELECTRICAL CHARACTERISTICS (T_a = 25 °C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector to Emitter Dark Current	I _{CEO}			200	nA	V _{CE} = 10 V, L = 0 lx
Collector Saturation Voltage	V _{CE(sat)}			0.3	V	I _C = 0.5 mA, L = 1 000 lx*
Photo Current	I _L	0.5	2		mA	V _{CE} = 10 V, L = 100 lx

*Measured with a tungsten filament lamp operated at a color temperature of 2 854 K.

PH105

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