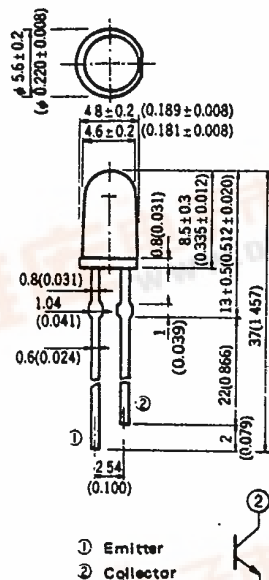


T-41-61

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 ($T_a = 25^\circ\text{C}$)

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	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +100	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector to Emitter Dark Current	I_{CEO}			200	nA	$V_{CE} = 10\text{ V}$, $L = 0\text{ lx}$
Collector Saturation Voltage	$V_{CE(sat)}$			0.3	V	$I_C = 0.5\text{ mA}$, $L = 1\text{ 000 lx}$ *
Photo Current	I_L	0.5	2		mA	$V_{CE} = 10\text{ V}$, $L = 100\text{ lx}$

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

PH105

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