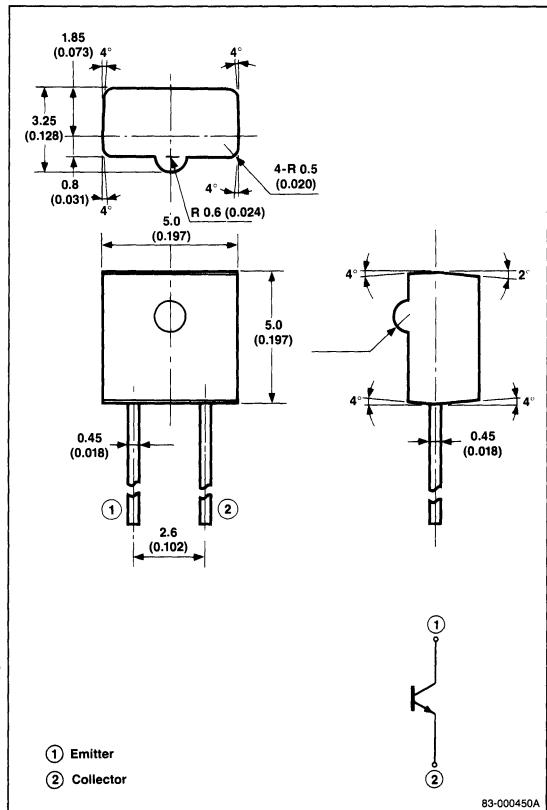


Description

The PH106 is a photo transistor in a plastic molded package and is very suitable as a detector of a photo interrupter.

Package Dimensions



Absolute Maximum Ratings

$T_A = +25^\circ\text{C}$

Collector to Emitter Voltage, V_{CEO}	30V
Collector Current, I_C	40mA
Power Dissipation, P_D	100mW
Junction Temperature, T_J	100°C
Storage Temperature, T_{STG}	-40°C to +100°C

Electrical Characteristics

$T_A = +25^\circ\text{C}$

Parameters	Symbol	Limits			Test Conditions
		Min	Typ	Max	
Collector to Emitter Dark Current	I_{CEO}			100	nA $V_{CE} = 10\text{V}$, $L = 0\text{lx}$
Collector Saturation Voltage	$V_{CE(\text{sat})}$			0.3	V $I_C = 0.5\text{mA}$, $L = 1000\text{lx}$
Photo Current	I_L	100			μA $V_{CE} = 2.0\text{V}$, $L = 100\text{lx}$
Fall Time	t_f		5		μs $V_{CC} = 10\text{V}$, $I_L = 0.5\text{mA}$, $R_L = 100\Omega$

Note: 1. Measured with a tungsten filament lamp operated at a color temperature of 2854K.

Typical Characteristics $T_A = +25^\circ\text{C}$ 