

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

1.85
(0.073)

4°

3.25
(0.128)

0.8
(0.031)

4°

5.0
(0.197)

4-R 0.5
(0.020)

4°

R 0.6 (0.024)

5.0
(0.197)

0.45
(0.018)

①

②

2.6
(0.102)

4°

4°

4°

0.45
(0.018)

①

②

① Emitter

② Collector

83-000450A

Collector to Emitter Voltage, V_{CE0}	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

Parameters	Symbol	Limits			Unit	Test Conditions
		Min	Typ	Max		
Collector to Emitter Dark Current	I_{CEO}			100	nA	$V_{CE} = 10V, L = 0lx$
Collector Saturation Voltage	$V_{CE(sat)}$			0.3	V	$I_C = 0.5mA, L = 1000lx^1$
Photo Current	I_L	100			μA	$V_{CE} = 2.0V, L = 100lx^1$
Fall Time	t_f		5		μs	$V_{CC} = 10V, I_L = 0.5mA, R_L = 100\Omega$

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

Typical Characteristics

T_A = +25°C

