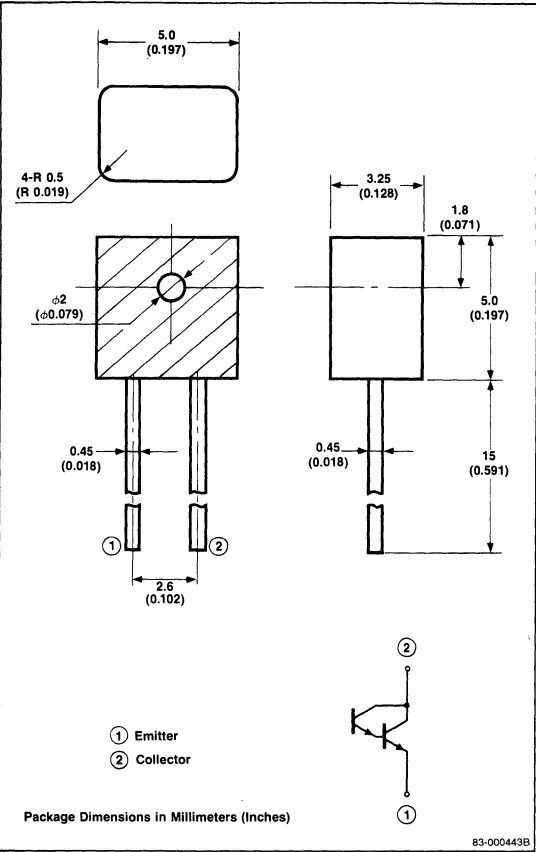


Description

The PH103 is a Darlington photo transistor in a plastic molded package, and is very suitable for a detector of a photo interrupter.

Package Dimensions



Absolute Maximum Ratings

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

Collector to Emitter Voltage, V_{CE0}	30V
Collector Current, I_C	50mA
Power Dissipation, P_D	100mW
Junction Temperature, T_J	100°C
Storage Temperature, T_{STG}	-40°C to +100°C

Electrical Characteristics

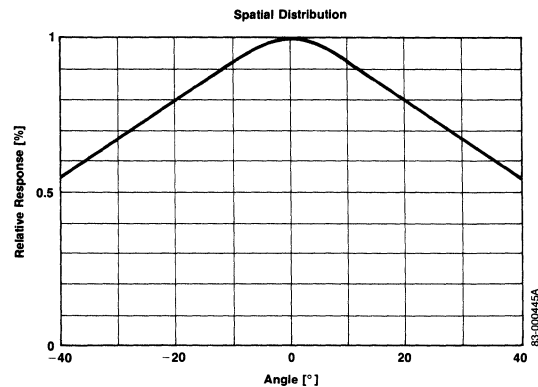
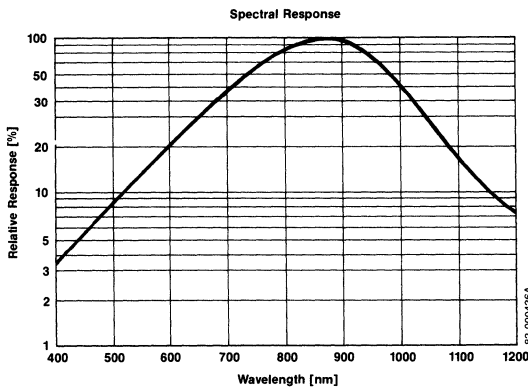
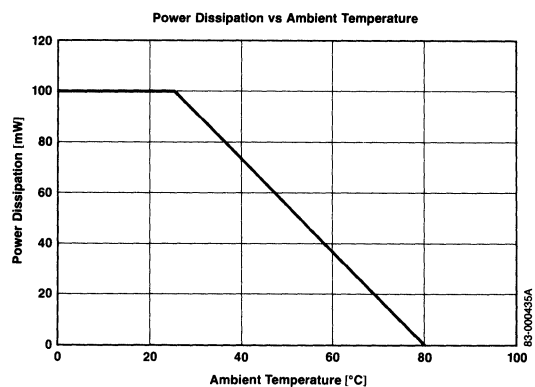
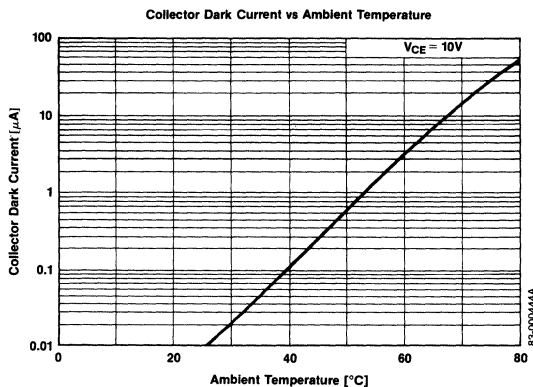
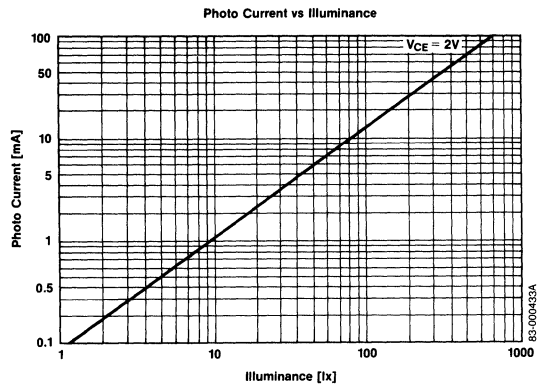
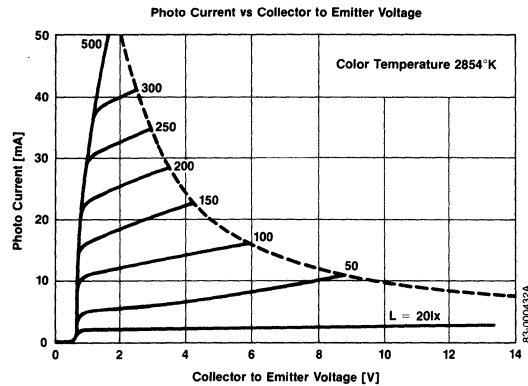
$T_A = +25^{\circ}\text{C}$

Parameters	Symbol	Limits			Unit	Test Conditions
		Min	Typ	Max		
Collector to Emitter Dark Current	I_{CE0}	10	400		nA	$V_{CE} = 10V$, $L = 0Ix$
Collector Saturation Voltage	$V_{CE(sat)}$	0.7	1.5		V	$I_C = 10mA$, $L = 1000Ix^1$
Photo Current	I_L	2.0			mA	$V_{CE} = 2V$, $L = 100Ix^1$

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

Typical Characteristics

T_A = +25°C



Typical Characteristics (cont)

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

