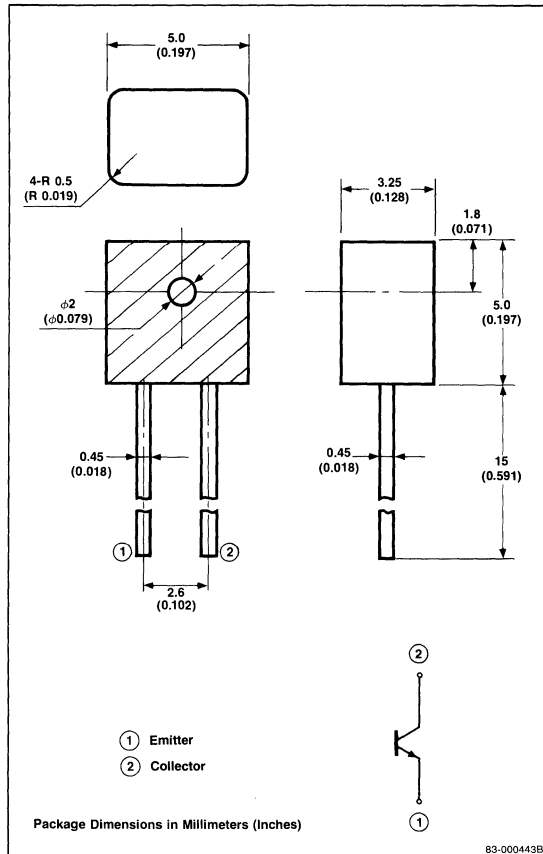


Description

The H104 is a photo transistor in a plastic molded package, and is very suitable for use as a detector in 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	40mA
Power Dissipation, P_D	100mW
Junction Temperature, T_J	100°C
Storage Temperature, T_{STG}	-40°C to +100°C

Electrical Characteristics

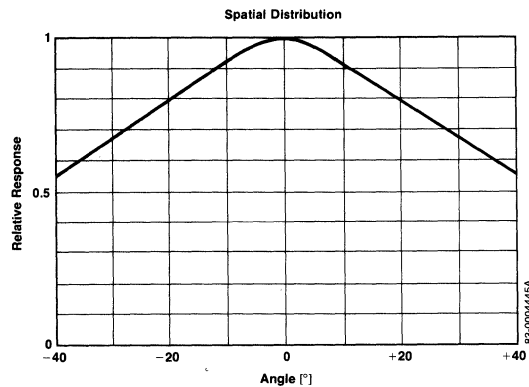
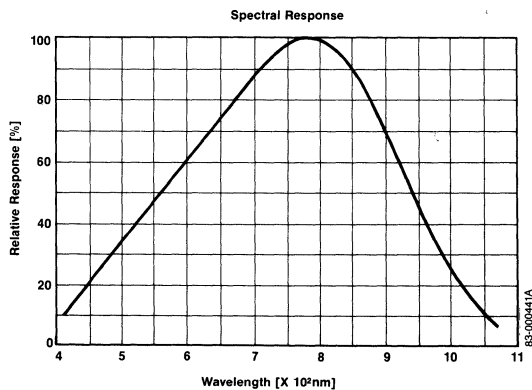
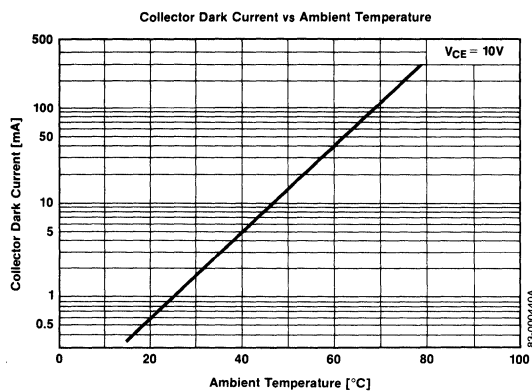
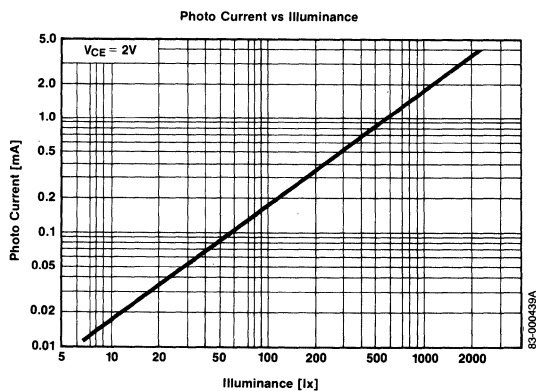
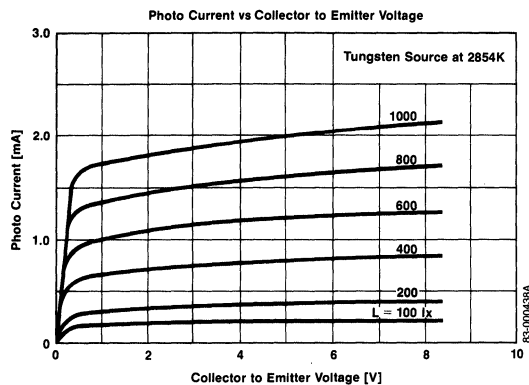
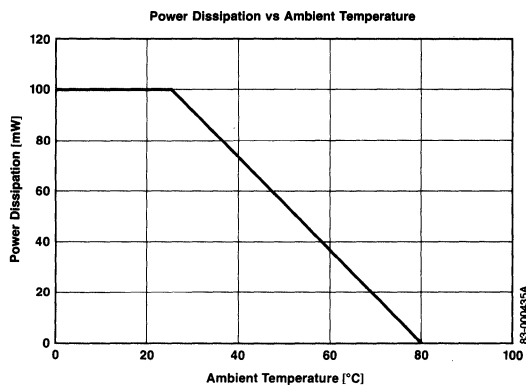
$T_A = +25^\circ\text{C}$

Parameters	Symbol	Limits			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	20			μA	$V_{CE} = 2.0V$, $L = 100lx^1$
Fall Time	t_f		5		μs	$V_{CC} = 10V$, $I_L = 2mA$, $R_L = 100\Omega$

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

Typical Characteristics

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



Typical Characteristics (cont)

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

