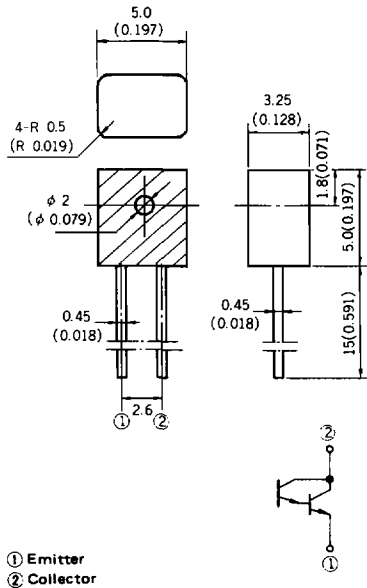


**DARLINGTON PHOTO TRANSISTOR**

—NEPOC SERIES—

**PACKAGE DIMENSIONS**  
in millimeters (inches)



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

**ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)**

Collector to Emitter Voltage	$V_{CEO}$	30	V
Collector Current	$I_C$	50	mA
Power Dissipation	$P_D$	100	mW
Junction Temperature	$T_j$	100	°C
Storage Temperature	$T_{stg}$	-40 to +100	°C

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**ELECTRICAL CHARACTERISTICS (Ta = 25 °C)**

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector to Emitter Dark Current	$I_{CEO}$		10	400	nA	$V_{CE} = 10 \text{ V}, L = 0 \text{ lx}$
Collector Saturation Voltage	$V_{CE(sat)}$		0.7	1.5	V	$I_C = 10 \text{ mA}, L = 1000 \text{ lx}^*$
Photo Current	$I_L$	2.0			mA	$V_{CE} = 2 \text{ V}, L = 100 \text{ lx}^*$

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

TYPICAL CHARACTERISTICS (Ta = 25 °C)

