### SD2410

Silicon Photodarlington

#### FEATURES

- Miniature, hermetically sealed, pill style, metal can package
- +  $48^{\circ}$  (nominal) acceptance angle
- Wide operating temperature range (- 55°C to +125°C)
- · Ideal for direct mounting to printed circuit boards
- Wide sensitivity ranges

DESCRIPTION

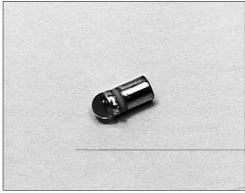
PC boards.

• Mechanically and spectrally matched to SE2460 and SE2470 infrared emitting diodes

The SD2410 is an NPN silicon photodarlington mounted

package. This package directly mounts in double sided

in a hermetically sealed glass lensed metal can

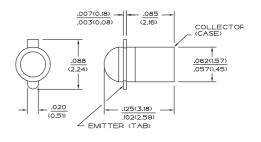


INFRA--1.TIF

#### OUTLINE DIMENSIONS in inches (mm)

Tolerance

3 plc decimals ±0.005(0.12) 2 plc decimals ±0.020(0.51)



DIM\_013.cdr

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Honeywell reserves the right to make changes in order to improve design and supply the best products possible.

156

# **SD2410**

**Silicon Photodarlington** 

#### ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Light Current	۱ <u>ـ</u>				mA	V <sub>CE</sub> =5 V
SD2410-001		1.0				H=1 mW/cm <sup>2 (1)</sup>
SD2410-002		3.0				
SD2410-003		6.0				
Collector Dark Current	ICEO			250	nA	V <sub>CE</sub> =10 V, H=0
Collector-Emitter Breakdown Voltage	V(BR)CEO	15			V	Ic=100 μΑ
Emitter-Collector Breakdown Voltage	V(BR)ECO	5.0			V	I <sub>E</sub> =100 μA
Collector-Emitter Saturation Voltage	VCE(SAT)			1.1	V	lc=1 mA
						H=5 mW/cm <sup>2</sup>
Angular Response (2)	Ø		48		degr.	IF=Constant
Rise And Fall Time	t <sub>r</sub> , t <sub>f</sub>		75		μs	Vcc=5 V, IL=1 mA
						RL=100 Ω

Notes 1. The radiation source is a tungsten lamp operating at a color temperature of 2870°K. 2. Angular response is defined as the total included angle between the half sensitivity points.

15 V 5 V 125 mW (1)

-55°C to 125°C -65°C to 150°C 260°C

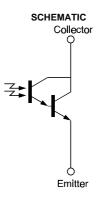
### ABSOLUTE MAXIMUM RATINGS

(25°C Free-Air Temperature unless otherwise noted)

Collector-Emitter Voltage		
Emitter-Collector Voltage		
Power Dissipation		
Operating Temperature Range		
Storage Temperature Range		
Soldering Temperature (10 sec)		

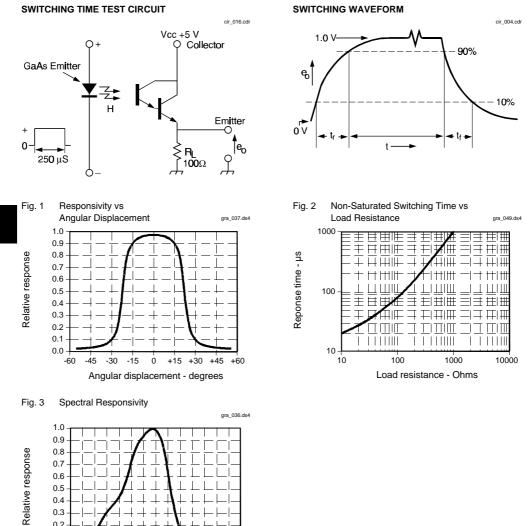
Notes

1. Derate linearly from 25°C free-air temperature at the rate of 1.19 mW/°C.



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0.4 0.3 \_ 0.2 0.1 400 600 800 1000 1200 Wavelength - nm

All Performance Curves Show Typical Values



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159

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