SD2410

Silicon Photodarlington

FEATURES

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

DESCRIPTION

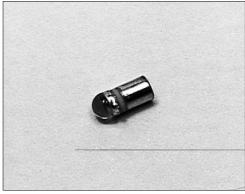
PC boards.

• 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

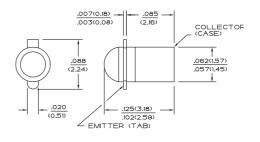


INFRA--1.TIF

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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ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Light Current	IL I				mA	V _{CE} =5 V
SD2410-001		1.0				H=1 mW/cm ^{2 (1)}
SD2410-002		3.0				
SD2410-003		6.0				
Collector Dark Current	ICEO			250	nA	V _{CE} =10 V, H=0
Collector-Emitter Breakdown Voltage	V(BR)CEO	15			V	Ic=100 μA
Emitter-Collector Breakdown Voltage	V(BR)ECO	5.0			V	I _E =100 μΑ
Collector-Emitter Saturation Voltage	VCE(SAT)			1.1	V	lc=1 mA
						H=5 mW/cm ²
Angular Response (2)	Ø		48		degr.	I _F =Constant
Rise And Fall Time	t _r , t _f		75		μs	Vcc=5 V, IL=1 mA R∟=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

260°C

125 mW (1)

-55°C to 125°C

-65°C to 150°C

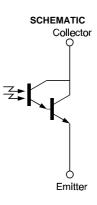
ABSOLUTE MAXIMUM RATINGS

(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

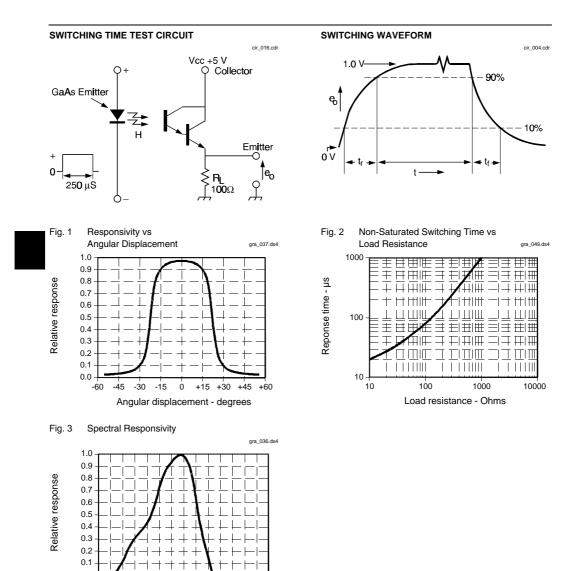
1. Derate linearly from 25°C free-air temperature at the rate of 1.19 mW/°C.



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Wavelength - nm

All Performance Curves Show Typical Values

400 600 800 1000 1200



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Honeywell: SD2410-001