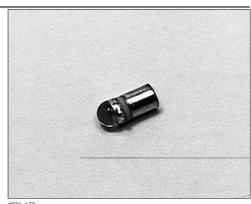
Silicon Photodiode

FEATURES

- Miniature, hermetically sealed, pill style, metal can package
- 48° (nominal) acceptance angle
- Wide operating temperature range (- 55° C to $+125^{\circ}$ C)
- Ideal for direct mounting to printed circuit boards
- Mechanically and spectrally matched to SE2460 and SE2470 infrared emitting diodes



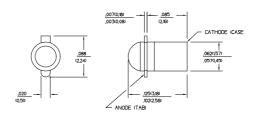
INFRA--1.TIF

DESCRIPTION

The SD2420 is a PN silicon photodiode mounted in a hermetically sealed, glass lensed, metal can package. This package directly mounts in double sided PC boards.

OUTLINE DIMENSIONS in inches (mm)

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



DIM_014.cdr



Silicon Photodiode

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

ELECTRICAL CHARACTERIOTICS (== = ===============================						
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Light Current	l _L				μΑ	V _R =20 V
SD2420-002		7.0				H=20 mW/cm ^{2 (1)}
Dark Current	ID			5.0	nA	V _R =20 V
						H=0
Reverse Breakdown Voltage	V_{BR}	50			V	I _R =10 μA
Angular Response (2)	Ø		48		degr.	I _F =Constant
Rise And Fall Time	t _r , t _f		50		ns	V _R =20 V
						R _L =50 Ω

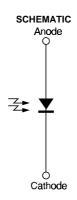
- Notes
 1. The radiation source is a tungsten lamp operating at a color temperature of 2870°K.
 2. Angular response is defined as the total included angle between the half sensitivity points.

ABSOLUTE MAXIMUM RATINGS

(25°C Free-Air Temperature unless otherwise noted) Cathode Anode Voltage 125 mW (1) Power Dissipation Operating Temperature Range -55°C to 125°C -65°C to 150°C Storage Temperature Range Soldering Temperature (10 sec)

Notes

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



Silicon Photodiode

SWITCHING TIME TEST CIRCUIT

Q + GaAs Emitter Anode 10 μS

SWITCHING WAVEFORM

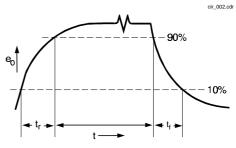


Fig. 1 Responsivity vs Angular Displacement

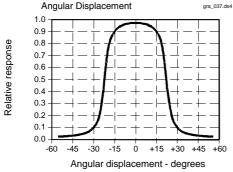


Fig. 2 Dark Current vs

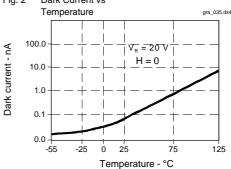
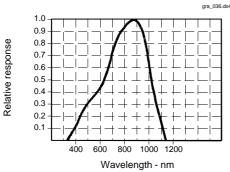


Fig. 3 Spectral Responsivity



All Performance Curves Show Typical Values



Silicon Photodiode



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