imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

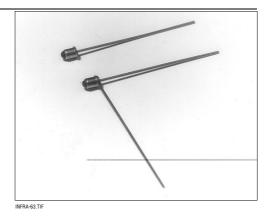
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SD1420 Silicon Photodiode

FEATURES

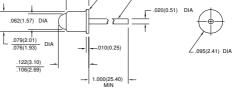
- Compact, metal can coaxial package
- 24° (nominal) acceptance angle
- Wide operating temperature range (- 55°C to +125°C)
- Mechanically and spectrally matched to SE1450
 and SE1470 infrared emitting diodes

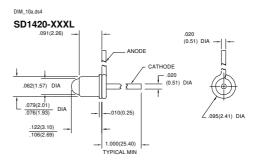


DESCRIPTION

The SD1420 is a PN junction silicon photodiode mounted in a glass lensed metal can coaxial package. The package may have a tab or second lead welded to the can as an optional feature (SD1420-XXXL). Both leads are flexible and may be formed as required to fit various mounting configurations.







DIM_10b.ds4

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

80

SD1420

Silicon Photodiode

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

			,			
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Light Current SD1420-002, SD1420-002L	lı.	5.0			μA	V _R =20 V H=5 mW/cm ^{2 (1)}
Dark Current	ID			5.0	nA	V _R =20 V H=0
Reverse Breakdown Voltage	VBR	50			V	I _R =10 μΑ
Angular Response (2)	Ø		24		degr.	IF=Constant
Rise And Fall Time	t _r , t _f		50		ns	V _R =20 V RL=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

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

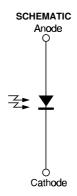
Cathode Anode Voltage	
Power Dissipation	
Operating Temperature Range	
Storage Temperature Range	
Soldering Temperature (10 sec)	

75 mW (1) -55°C to 125°C -65°C to 150°C 260°C

50 V

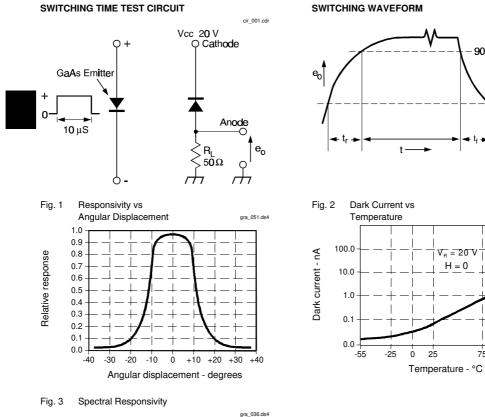
Notes

1. Derate linearly from 25°C free-air temperature at the rate of 0.71 mW/°C.



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1.0 0.9 Relative response 0.8 0.7 1 0.6 1 0.5 0.4 1 0.3 _ 0.2 0.1 600 800 1000 1200 400

Wavelength - nm

All Performance Curves Show Typical Values



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75

cir_002.cdr

- 1**0**%

gra_035.ds4

125

90%



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