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



SD3421/5421

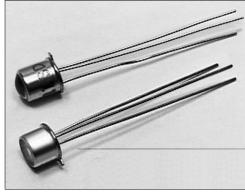
Silicon PIN Photodiode

FEATURES

- TO-46 metal can package
- Choice of flat window or lensed package
- + 90° or 18° (nominal) acceptance angle option
- · Fast response time
- Wide operating temperature range
- (- 55°C to +125°C)
- Mechanically and spectrally matched to SE3450/5450, SE3455/5455 and SE3470/5470 infrared emitting diodes

DESCRIPTION

The SD3421/5421 series consists of PIN photodiodes mounted in a TO-46 metal can package. The SD3421 utilizes flat window cans providing a wide acceptance angle, while the SD5421 employs glass lensed cans providing a narrow acceptance angle. The TO-46 packages are ideally suited for operation in hostile environments.



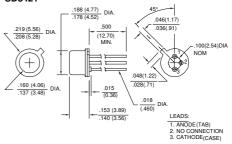
INFRA-57.TIF

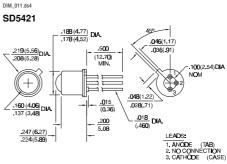
OUTLINE DIMENSIONS in inches (mm)

Tolerance

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

SD3421





DIM_11b.cdr

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SD3421/5421

Silicon PIN Photodiode

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Light Current	l.				μA	V _R =20 V
SD3421-002		10.0				H=5 mW/cm ^{2 (1)}
SD5421-002		40.0				
Dark Current	lo			20	nA	V _R =20 V
						H=0
Reverse Breakdown Voltage	VBR	75			V	I _R =10 μΑ
Angular Response (2)	Ø				degr.	IF=Constant
SD3421			90		_	
SD5421			18			
Rise And Fall Time	t _r , t _f		15		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.

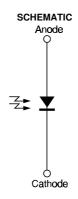
ABSOLUTE MAXIMUM RATINGS

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

Cathode Anode Voltage	75 V
Power Dissipation	150 mW (1)
Operating Temperature Range	-55°C to 125°C
Storage Temperature Range	-65°C to 150°C
Soldering Temperature (10 sec)	260°C

Notes

1. Derate linearly from 25°C free-air temperature at the rate of 1.43 mW/°C.

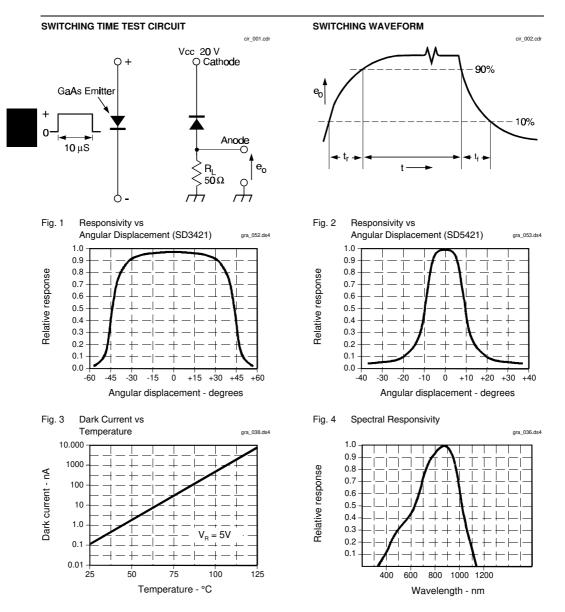


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SD3421/5421

Silicon PIN Photodiode



All Performance Curves Show Typical Values

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