

SD5620-001

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Overview

SD5620 Series Optoschmitt Detector, TO-46 Metal Can Package

The SD5620/5630 series is a family of single chip Optoschmitt IC detectors mounted in a TO-46 metal can package. The photodetector consists of a photodiode, amplifier, voltage regulator, Schmitt trigger and an NPN output transistor with 10 kOhm (nominal) pull-up resistor. Output rise and fall times are independent of the rate of change of incident light. Detector sensitivity has been internally temperature compensated. The TO-46 package is ideally suited for operating in hostile environments.

Device...

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Technical Specifications

Package Type	T0-46, Dome Lensed	Package Material	Metal
Angular Response (Degree)	12	Turn-on Threshold Irradiance	0.25 mW/cm²
Output Logic	Buffer	Output	10 kOhm Pull-up
Output Option	N/A	Operating Supply Voltage	4.5 V to 16.0 V
Supply Voltage	16.0 Vdc	Operating Temperature	-40 °C to 100 °C [-40 °F to 212 °F]

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Documents

TITLE	DOCUMENT TYPE	LANGUAGE	SIZE
 TO-46 metal can domed window highres photo		English	352KB
 TO-46 metal can domed window lowres photo		English	62KB
 SD5620/5630 Series Optoschmitt Infrared Detectors Catalog Information	Catalog Information	English	547KB
 Infrared Sensors Line Guide	Product Line Guide	English	1MB

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Product Features

- TO-46 metal can package
- 6 ° (nominal) acceptance angle

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- TTL/LSTTL/CMOS compatible
- High noise immunity output
- Buffer (SD5620) or inverting (SD5630) logic available
- Two sensitivity ranges
- Mechanically and spectrally matched to SE3450/5450, SE3455/5455 and SE3470/5470 infrared emitting diodes

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