Honeywell

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Speed, Position & Current

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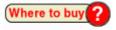
Relays

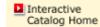
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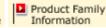
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## Honeywell Sensing and Control













Representative photograph, actual product appearance may vary.

- Dimensions
- Schematic
- Performance Charts
- Specifications

Click here for a print friendly version of this datasheet.

## SD5443-004

SD Series Silicon PhotoTransistor, TO-46 Metal, Glass Lensed Can Package

## **Features**

TO-46 metal can package Choice of flat window or lensed package 90 ° or 18 ° (nominal) acceptance angle option Wide operating temperature range [-55 °C to 125 °C] External base connection for added control

High sensitivity

Mechanically and spectrally matched to SE3450/5450, SE3455/5455 and SE3470/5470 infrared emitting diodes

## **Description**

The SD3443/5443 series consists of an NPN silicon phototransistor mounted in a TO-46 metal can package. The SD3443 has flat window cans providing a wide acceptance angle, while the SD5443 has glass lensed cans providing a narrow acceptance angle. The TO-46 packages are ideally suited for operation in hostile environments.

The base is connected on all SD3443 and SD5443 standard products.

Product Specifications	
Product Type	IR Component
Angular Response (Degree)	18
Light Current Minimum	16.0 mA
Package Style	T0-46, Dome Lensed
Package Components	Metal
Rise and Fall Time	15 μs
Power Dissipation	150 mW
Operating Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Dark Current	100 nA
Collector-Emitter Breakdown Voltage	30 V
Emitter-Collector Breakdown Voltage	5 V
Collector-Emitter Saturation Voltage	0.4 V
Comment	The radiation source is a tungsten lamp operating at a color temperature of 2870°K.
Availability	Global
Product Name	Phototransistor

