

## Honeywell Sensing and Control



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## SD5421-002

### SD Series Silicon PhotoDarlington, 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  
 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.

Product Specifications	
<b>Product Type</b>	IR Component
<b>Angular Response (Degree)</b>	18
<b>Light Current Minimum</b>	40.0 $\mu$ A
<b>Package Style</b>	TO-46, Dome Lensed
<b>Package Components</b>	Metal
<b>Reverse Breakdown Voltage</b>	75 V
<b>Rise and Fall Time</b>	15 ns
<b>Power Dissipation</b>	150 mW
<b>Operating Temperature Range</b>	-55 °C to 125 °C [-67 °F to 257 °F]
<b>Dark Current</b>	20 nA
<b>Comment</b>	The radiation source is a tungsten lamp operating at a color temperature of 2870°K.
<b>Availability</b>	Global
<b>Product Name</b>	Photodiode

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