

NDUSTRIES

PRODUCTS & APPLICATIONS

NEWS & EVENTS

CONTACT & SUPPORT

EXTRANETS

Speed, Position & Current

Thermal

Pressure, Force & Flow

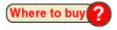
Relays

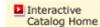
Switches & **Equipment Health** Potentiometers & Resistors

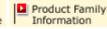
Safety **Products** Vehicle Controls & Monitoring

Test & Measuremer

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.

SD3410-001

SD Series Silicon PhotoDarlington, TO-46 Metal, Flat Window Can **Package**

Features

TO-46 metal can package Choice of flat window or lensed package 90 ° or 12 ° (nominal) acceptance angle option Wide operating temperature range [-55 °C to 125 °C] Wide sensitivity ranges

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

Description

The SD3410/5410 series consists of an NPN silicon photodarlington mounted in a TO-46 metal can package. The SD3410 has flat window cans providing a wide acceptance angle, while the SD5410 has glass lensed cans providing a narrow acceptance angle. The TO-46 packages are ideally suited for operation in hostile environments.

Product Specifications	
Product Type	IR Component
Angular Response (Degree)	90
Light Current Minimum	0.6 mA
Package Style	T0-46, Flat Window
Package Components	Metal
Rise and Fall Time	75 μs
Power Dissipation	150 mW
Operating Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Dark Current	250 nA
Collector-Emitter Breakdown Voltage	15 V
Emitter-Collector Breakdown Voltage	5 V
Collector-Emitter Saturation Voltage	1.1 V
Comment	The radiation source is a tungsten lamp operating at a color temperature of 2870°K.
Availability	Global
Product Name	Photodarlington