

Honeywell Sensing and Control



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SD5491-004

SD Series Silicon PhotoTransistor, TO-18 Metal Can Package

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Features

- TO-18 metal can package
- 12 ° (nominal) acceptance angle
- Wide operating temperature range [-55 °C to 125 °C]
- Fast response time
- Wide sensitivity ranges
- External base connection for added control
- Mechanically and spectrally matched to SE3450/5450, SE3455/5455 and SE3470/5470 infrared emitting diodes

Description

The SD5491 is an NPN silicon phototransistor mounted in a TO-18 metal can package. A biconvex lens provides high optical sensitivity with a narrow acceptance angle to enable maximum radiation coupling. The TO-18 package offers protection against harsh environments as well as excellent thermal characteristics.

Product Specifications

Product Type	IR Component
Angular Response (Degree)	12
Light Current Minimum	4.0 mA
Light Current Maximum	8.0 mA
Package Style	TO-18, Dome Lensed
Package Components	Metal
Rise and Fall Time	2.0 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

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