





## HOA0149-001

**HOA Series Infrared Reflective Sensor, Transistor Output, Low profile, Plastic Package**

### Features

- Phototransistor output
- Focused for maximum response
- Low profile housing

### Description

The HOA0149 consists of an infrared emitting diode and an NPN silicon phototransistor encased side-by-side on converging optical axes in a black thermoplastic housing. The phototransistor responds to radiation from the IRED only when a reflective object passes within its field of view. The HOA0149 employs plastic molded components. For additional component information see SEP8505 and SDP8405.

Housing material is ABS. Housings are soluble in chlorinated hydrocarbons and ketones. Recommended cleaning agents are methanol and isopropanol.

*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*



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### Product Specifications

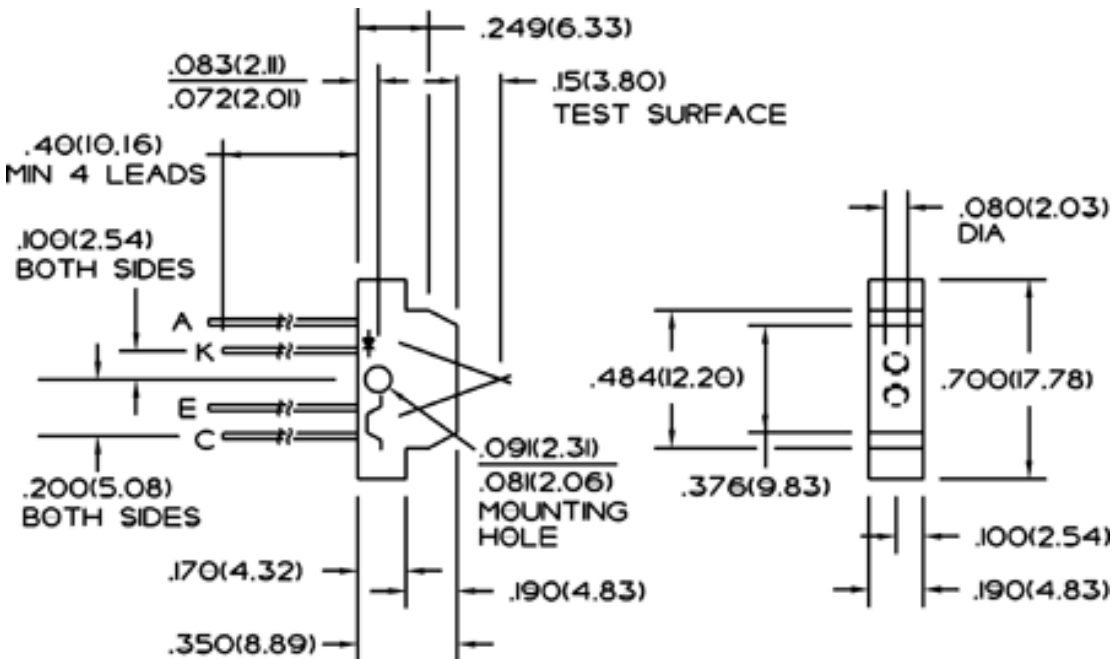
<b>Product Type</b>	IR Switch
<b>On-State Collector Current</b>	1.00 mA
<b>Output</b>	Transistor
<b>Package Style</b>	Side-Looking
<b>Package Components</b>	Plastic
<b>Forward Current</b>	40 mA
<b>Continuous Forward Current</b>	50 mA
<b>Forward Voltage</b>	1.6 V
<b>Reverse Current</b>	10 $\mu$ A

<b>Rise and Fall Time</b>	15 ns
<b>Power Dissipation</b>	70 mW
<b>Operating Temperature Range</b>	-40 °C to 85 °C [-40 °F to 185 °F]
<b>Dark Current</b>	100 nA
<b>Collector-Emitter Breakdown Voltage</b>	30 V
<b>Emitter-Collector Breakdown Voltage</b>	5 V
<b>Collector-Emitter Saturation Voltage</b>	0.4 V
<b>Availability</b>	Global
<b>Product Name</b>	Reflective Sensor
<b>Optimum Point of Response</b>	5,08 mm [0.20 in]

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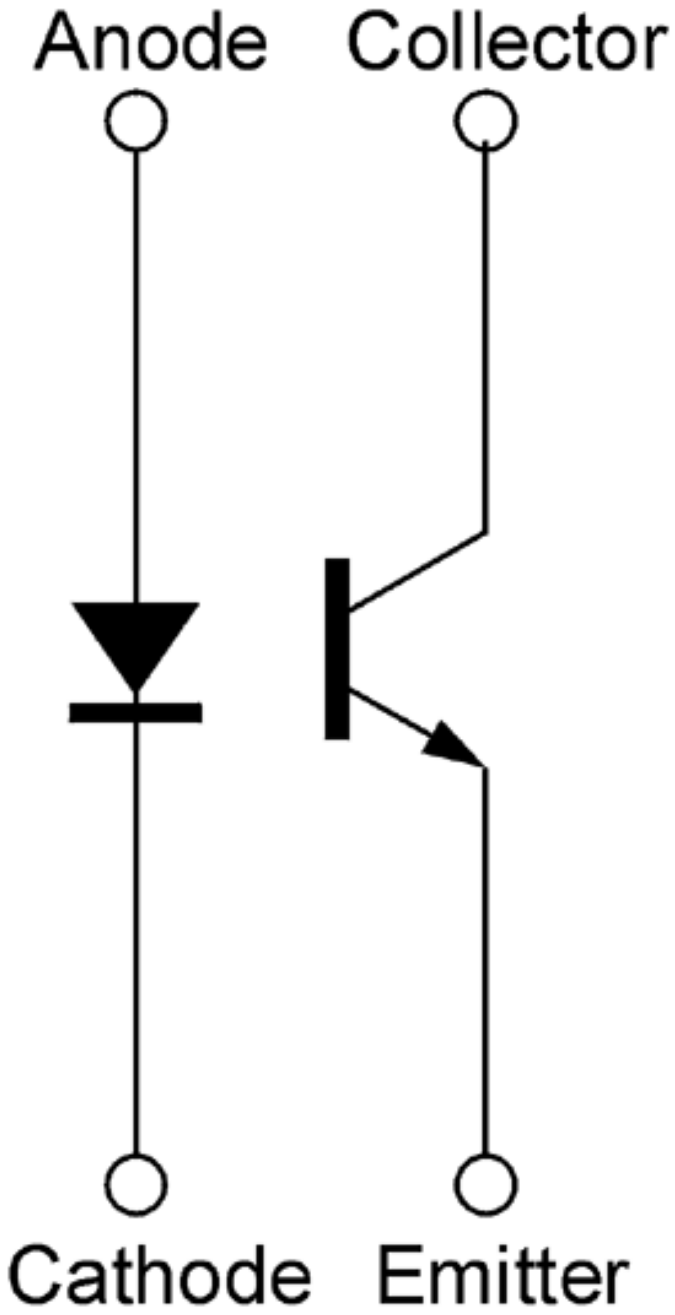
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** WARNING**

**PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

** WARNING**


**MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

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