

HOA1404-002



Actual product appearance may vary.

HOA Series Reflective Sensor,
Transistor Output, Metal Can Packaged
Components

Features

- Choice of phototransistor or photodarlington output
- Focused for maximum response
- Wide operating temperature range [-55 °C to 100 °C]

Description

The HOA1404 series consists of an infrared emitting diode and an NPN silicon phototransistor (HOA1404-001, -002) or photodarlington (HOA1404-003), encased side-by-side on converging optical axes, in a black thermoplastic housing. The detector responds to radiation from the IRED only when a reflective object passes within its field of view. The HOA1404 series employs metal can packaged components. For additional component information see SE1450, SD1440 and SD1410.

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

Product Specifications	
Series Name	Reflective Sensor
Product Type	IR Switch
On-State Collector Current	0.80 mA
Output	Transistor
Package Style	Side-Looking
Package Components	Plastic
Package Color	Black
Forward Current	30 mA
Continuous Forward Current	50 mA
Forward Voltage	1.6 V
Reverse Breakdown Voltage	3 V

Reverse Current	10 μ A
Housing Material	Acetal Copolymer
Rise and Fall Time	15 μ s
Power Dissipation	75 mW
Operating Temperature Range	-55 $^{\circ}$ C to 100 $^{\circ}$ C [-67 $^{\circ}$ F to 212 $^{\circ}$ F]
Dark Current	100 nA
Collector DC Current	30 mA
Collector-Emitter Breakdown Voltage	30 V
Emitter-Collector Breakdown Voltage	5 V
Collector-Emitter Saturation Voltage	0.4 V
Availability	Global
Optimum Point of Response	5,08 mm [0.20 in]