



HOA1397-032



HOA Series Reflective Sensor, Darlington Output, Plastic Package

Actual product appearance may vary.

Features

- Choice of phototransistor or photodarlington output
- Low profile for design flexibility
- Unfocused for sensing diffused surfaces

Description

The HOA1397 series consists of an infrared emitting diode and an NPN silicon phototransistor (HOA1397-001, -002) or photodarlington (HOA1397-031, 032), encased side-by-side on parallel axes in a miniature black thermoplastic housing. The detector responds to radiation from the IRED only when a reflective object passes within its field of view. The HOA1397 series employs plastic molded components. For additional component information refer to SEP8507 and SDP8407.

Housing material is polyester. 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	7.00 mA
Output	Darlington
Package Style	Side-Looking
Package Components	Plastic
Package Color	Black
Forward Current	20 mA
Continuous Forward Current	60 mA
Forward Voltage	1.6 V
Reverse Breakdown Voltage	3 V
Reverse Current	10 μ A
Housing Material	Polyester
Rise and Fall Time	75 μ s

Power Dissipation	100 mW
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Dark Current	250 nA
Collector DC Current	30 mA
Collector-Emitter Breakdown Voltage	15 V
Emitter-Collector Breakdown Voltage	5 V
Collector-Emitter Saturation Voltage	1.1 V
Availability	Global
Optimum Point of Response	1,27 mm [0.05 in]