



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] |