



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] |