imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



HOA1886 Transmissive Sensor

FEATURES

DESCRIPTION

 Choice of phototransistor or photodarlington output

The HOA1886 series consists of an infrared emitting

housing with IR transmissive inserts which form the

protection against ambient light while eliminating

optical windows. This arrangement provides excellent

aperture openings which could be clogged by airborne

an opaque object passes through the slot between

emitter and detector. The HOA1886 series employs

plastic molded components and has a 0.050 in.(1.27

mm) x 0.060 in (1.52 mm) vertical aperture in front of

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

SEP8506/8706, SDP8406, and SDP8106.

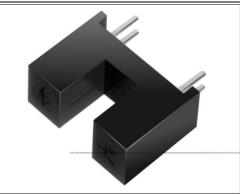
the detector. For additional component information see

contaminants. Detector switching takes place whenever

diode facing an NPN silicon phototransistor

(HOA1886-011, - 012) or photodarlington (HOA1886-013) encased in a black thermoplastic

- Ambient light and dust protective filter
- 0.200 in.(5.08 mm) slot width

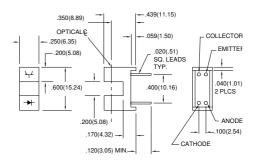


INFRA-76.TIF

OUTLINE DIMENSIONS in inches (mm) Tolerance 3 plc decimals ±0.010(0

101100 0 0

3 plc decimals ±0.010(0.25) 2 plc decimals ±0.020(0.51)



DIM_056.ds4

Honeywell

Honeywell reserves the right to make changes in order to improve design and supply the best products possible.

334

isopropanol.

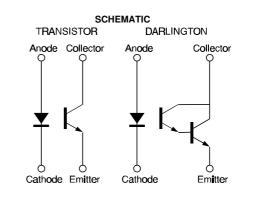
HOA1886 Transmissive Sensor

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted) PARAMETER SYMBOL MIN ТҮР MAX UNITS **TEST CONDITIONS IR EMITTER** Forward Voltage Vf 1.6 V I_F=20 mA Reverse Leakage Current IR 10 μΑ V_R=3 V DETECTOR Collector-Emitter Breakdown Voltage V Ic=100 μA V(BR)CEO HOA1886-011, -012 30 HOA1886-013 15 Emitter-Collector Breakdown Voltage 5.0 V I_E=100 μA V(BR)ECO Collector Dark Current Vce=10 V nA CEO HOA1886-011, -012 100 IF=0 HOA1886-013 250 COUPLED CHARACTERISTICS Vce=5 V **On-State Collector Current** Ic(on) mΑ 0.3 HOA1886-011 IF=20 mA HOA1886-012 1.8 HOA1886-013 4.0 Collector-Emitter Saturation Voltage I_F=20 mA V VCE(SAT) HOA1886-011 0.4 lc=40 μA HOA1886-012 0.4 Ic=230 µA HOA1886-013 Ic=500 µA 1.1 Rise And Fall Time t_r, t_f Vcc=5 V, Ic=1 mA μs HOA1886-011, -012 15 $R_L=1000 \ \Omega$ HOA1886-013 75 $R_L=100 \Omega$

ABSOLUTE MAXIMUM RATINGS

(25°C Free-Air Temperature unless otherwise noted)

Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 85°C
Soldering Temperature (5 sec)	240°C
IR EMITTER	
Power Dissipation	100 mW (1)
Reverse Voltage	3 V
Continuous Forward Current	50 mA
DETECTOR	
Collector-Emitter Voltage	30 V
Emitter-Collector Voltage	5 V
Power Dissipation	100 mW (1)
Notes	

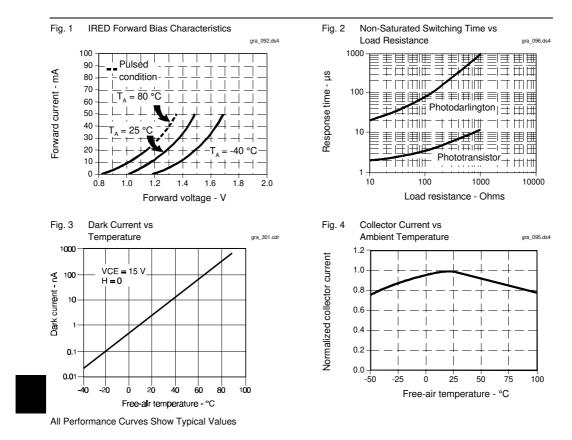


1. Derate linearly at 0.78 mW/°C above 25°C.

Honeywell reserves the right to make changes in order to improve design and supply the best products possible.

Honeywell





Honeywell

Honeywell reserves the right to make changes in order to improve design and supply the best products possible.

336



Honeywell reserves the right to make changes in order to improve design and supply the best products possible.

Honeywell