# 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

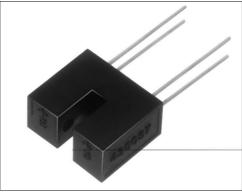
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### HOA2862 Transmissive Sensor

#### FEATURES

- Choice of phototransistor or photodarlington output
- Wide operating temperature range (- 55°C to +100°C)
- Accurate position sensing
- 0.100 in.(2.54 mm) slot width



INFRA-77.TIF

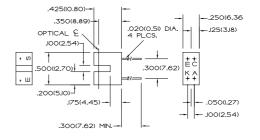
#### DESCRIPTION

The HOA2862 series consists of an infrared emitting diode facing an NPN silicon phototransistor (HOA2862-001, - 002) or photodarlington (HOA2862-003) encased in a black thermoplastic housing. Detector switching takes place whenever an opaque object passes through the slot between emitter and detector. The HOA2862 series employs metal can packaged components and has a 0.025 in.(.635 mm) x 0.040 in.(1.02 mm) vertical aperture in front of the detector. The narrow detector aperture is ideal for use in applications in which the maximum rejection of ambient light is important. For additional component information see SE1450, SD1440, and SD1410.

Housing material is polyester. Housings are soluble in chlorinated hydrocarbons and ketones. Recommended cleaning agents are methanol and isopropanol. OUTLINE DIMENSIONS in inches (mm) Tolerance 3 plc decimals ±0.010(0.

loranoc

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



DIM\_058.cdr

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## HOA2862

**Transmissive Sensor** 

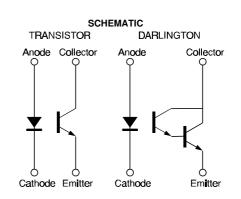
ELECTRICAL CHARACTERISTICS (25 PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
	STNIBUL	IVIIIN	ITP	WAA	UNITS	TEST CONDITIONS
IR EMITTER						
Forward Voltage	VF			1.6	V	I <sub>F</sub> =20 mA
Reverse Leakage Current	R			10	μA	V <sub>R</sub> =3 V
DETECTOR						
Collector-Emitter Breakdown Voltage	V(BR)CEO				V	Ic=100 μΑ
HOA2862-001, -002		30				
HOA2862-003		15				
Emitter-Collector Breakdown Voltage	V(BR)ECO	5.0			V	I <sub>E</sub> =100 μΑ
Collector Dark Current	ICEO				nA	V <sub>CE</sub> =10 V
HOA2862-001, -002				100		IF=0
HOA2862-003				250		
COUPLED CHARACTERISTICS						
On-State Collector Current	C(ON)				mA	V <sub>CE</sub> =5 V
HOA2862-001		0.2				I⊧=20 mA
HOA2862-002		1.8				
HOA2862-003		4.0				
Collector-Emitter Saturation Voltage	VCE(SAT)				V	l <sub>F</sub> =20 mA
HOA2862-001				0.4		lc=25 μΑ
HOA2862-002				0.4		lc=75 μΑ
HOA2862-003				1.1		Ic=500 μA
Rise And Fall Time	tr, tr				μs	Vcc=5 V, lc=1 mA
HOA2862-001, -002			15			RL=1000 Ω
HOA2862-003			75			RL=100 Ω

#### **ABSOLUTE MAXIMUM RATINGS**

(25°C Free-Air Temperature unless otherwise noted) Operating Temperature Range -55°C to 100°C

Storage Temperature Range -55°C to 125°C Soldering Temperature (10 sec) 260°C IR EMITTER Power Dissipation 75 mW (1) Reverse Voltage 3 V Continuous Forward Current 50 mA DETECTOR 30 V Collector-Emitter Voltage Emitter-Collector Voltage 5 V Power Dissipation

3 V 50 mA **TRANS.** DARLINGTON 30 V 15 V 5 V 5 V 75 mW <sup>(1)</sup> 75 mW <sup>(1)</sup> 30 mA 30 mA

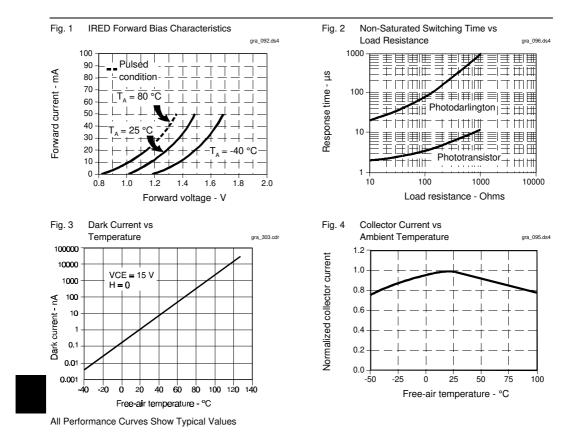


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Collector DC Current

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